THOMSON MULTI MEDIA

Brandt FERGUSON **NORDMENDE** SABA **TELEFUNKEN** **THOMSON**

VIDEO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

VIDEORECORDER
R5000-T5000 HI-FI
2. VERSION

THOMSON	TELEFUNKEN	NORDMENDE	SABA
VPH 6600 N	M 9560 SA	V 3450 SV	VR 6081
VPH 6601	M 9560 HIFI		VR 6087/F
VPH 6680	M 9571 HIFI		VR 7081
VPH 6697 SENSAR	M 9680 HIFI		VR 8083H
VPH 6750	T 8006 HIFI		VR 8087
VPH 6751			
VPH 6780			
VPH 6790			

WARNING : *Before servicing this set read the safety recommendations.*
ATTENTION : *Avant toute intervention sur cet appareil, lire les recommandations de sécurité.*
ACHTUNG : *Bei jedem Eingriff im Gerät, die Sicherheitsvorschriften beachten.*
ATTENZIONE : *Prima di intervenire sull'apparecchio, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 350 435 10 - 0997 - 10,4M - R5000-T5000 HI-FI - Print ROSSEELS PRINTING : 01 53 01 11 11

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⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) durch nicht normengerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (marcati con il segno ⚠) con componenenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La subtitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

⚠ Do not disconnect modules when they are energized!
Repairs on power supply section are to be carried out only with isolating transformer.

⚠ Ne pas retirer les modules lorsqu' ils sont sous tension.
N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement.

⚠ Module nicht bei eingeschaltetem Gerät entfernen !
Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.

⚠ Non scollegare i moduli quando sono alimentati!
Intraprendere riparazioni sulla sezione alimentatore solo con trasformatore isolante.

⚠ No desconectar los módulos cuando están activados.
Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

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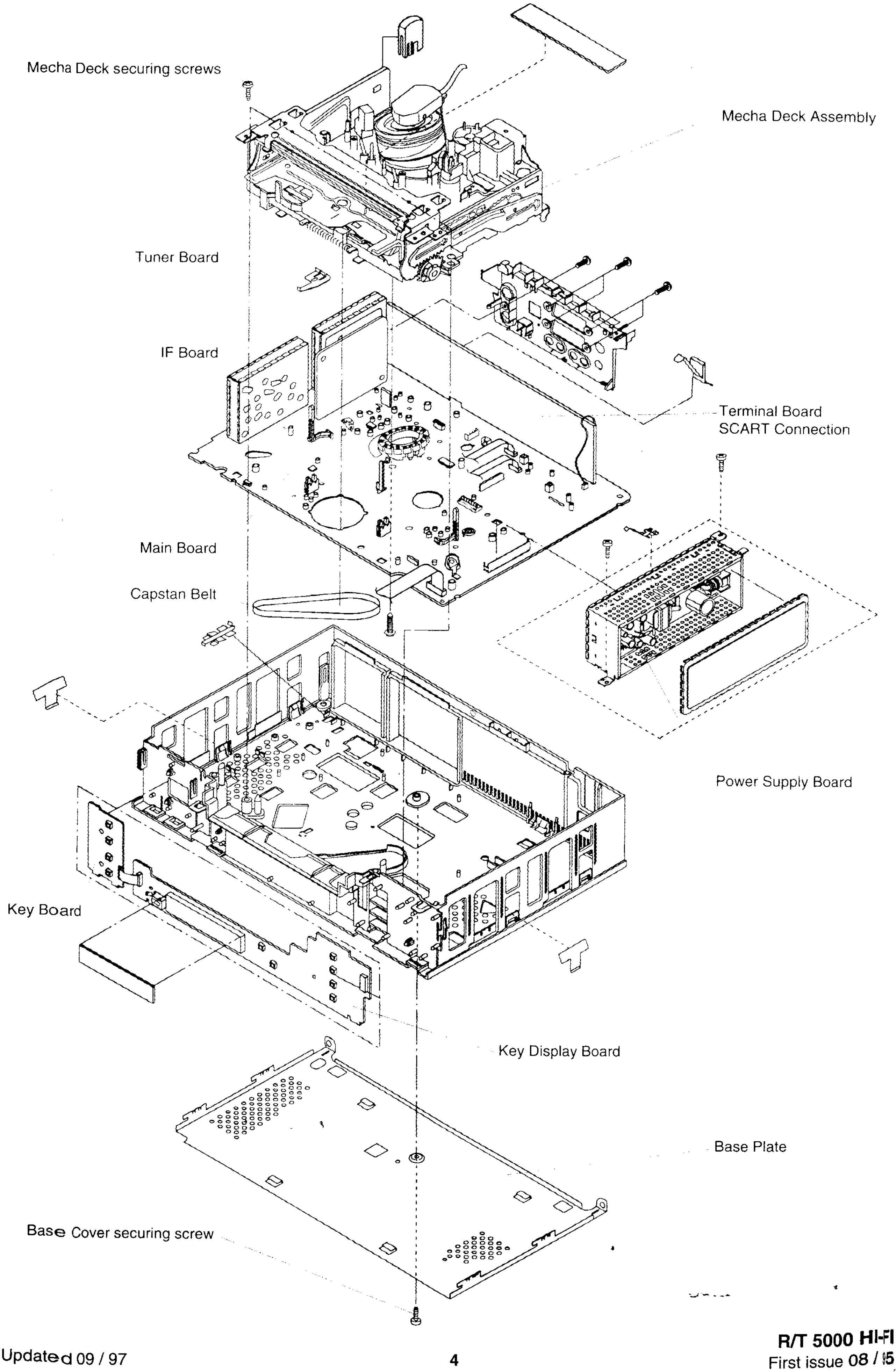
VIDEO RECORDER OVERVIEW - LOCALISATION DES ELEMENTS - EXPLOSIONSZEICHNUNG DES GERÄTES - VISIONE DECOMPOSTA DELL'APPARECCHIO - VISTA AMPLIADA DEL CONJUNTO



Mecha Deck securing screws
Mecha Deck Assembly
Tuner Board
IF Board
Terminal Board
SCART Connection
Main Board
Capstan Belt
Power Supply Board
Key Board
Key Display Board
Base Plate
Base Cover securing screw

1. Service Hinweise

1.1 Demontage des Gerätes

1.1.1 Gehäuse

a) 5 Schrauben an der Rückseite des Gehäuses herausdrehen.
b) Die zwei seitlichen Schrauben herausdrehen
c) Das Gehäuseoberteil leicht nach hinten ziehen und anheben.

1.1.2 Frontblende

a) 2 Schrauben an der Oberseite links und rechts vom Kassettenfach herausdrehen.
b) 2 Kunststoffzungen an der Oberseite anheben.
c) 2 Kunststoffzungen an der Unterkante der Frontblende anheben und die Frontblende abnehmen.
Anmerkung: Während des Wiedereinbaus der Frontblende, muß die Kassettenklappe hinter dem Hebel liegen, auf der rechten Seite des Kassettenschachtes (halten Sie die Kassettenklappe in horizontaler Lage beim Einfügen in die Frontblende).

1.1.3 Bedienteil - Platte (KDB)

a) Ziehen sie die Stecker BK14 und BK06 heraus.
b) 2 Rastnasen an der Oberkante der Bedienteil-Platte anheben und Platte nach vorne/oben herausheben.

1.1.4 Front-Anschlußplatte(nicht bei allen Geräten)

a) Lösen Sie 2 Verriegelungen am oberen Teil der Platte, ziehen Sie die Platte nach vorn/oben, um sie abzunehmen.

1.1.5 Bodenplatte

a) Eine Schraube aus der Bodenplatte entfernen.
b) Lösen Sie Verriegelung in der Mitte der Abschirmung (in der viereckigen Öffnung), drücken Sie die Abschirmung nach hinten, um sie frei zu machen.

1.1.6 Versorgungsteil

a) Entfernen Sie 2 Schrauben .
b) Ziehen Sie die komplette Stomversorgung heraus.

1.1.7 Hauptleiterplatte kpl. mit Laufwerk (Mecha Deck)

a) Die Schraube in der Mitte der Bodenplatte von unten entfernen.
b) Frontblende entfernen und die Steckverbindungen auf der Bedienteil-Platte lösen.
c) 2 Schrauben links und rechts (von oben) des Laufwerks herausdrehen.
d) Lösen Sie 4 Verriegelungen, dabei den hinteren Teil festhalten (Anschluß-Stecker Halterung).
e) Lösen Sie 2 Verriegelungen, die Hauptleiterplatte halten.
f) Machen Sie die Verriegelung hinter dem Gerät los.
g) Ziehen Sie die Gesamt-Einheit (Hauptleiterplatte und Laufwerk) heraus .

1.1.8 Kassettenschacht

Vorher Pkt. 1.1.7 durchführen.
a) 2 Schrauben links und rechts am Kassettenschacht lösen.
b) Den oberen Teil des Kassettenschachtes abheben.
c) Den Kassettenhalter bis zum vorderen Anschlag zurückziehen.
d) Heben Sie den Kassettenschacht auf der Seite der Trommel leicht an.
e) Machen Sie die weißen Hebel frei (links und rechts des Kassettenschachtes) und drücken Sie den Kassettenschacht zur Trommel bis die Führungsblöcke (an der hinteren Seite) aus den Führungsschienen kommen.
f) Ziehen Sie jetzt Sie den Kassettenschacht in der entgegengesetzten Richtung bis die Führungsblöcke (an der Vorderseite) ebenfalls aus den Führungsschienen kommen.

1.1.9 Hauptleiterplatte vom Laufwerk trennen

Vorher Pkt. 1.1.7 durchführen.
a) Steckverbindungen BT002 (am Lademotor), BV001 (Kopftrommel) und BN003 (HIFI) abziehen.
b) Eine, mit einem Pfeil markierte Schraube, von der Lötseite der Hauptplatine herausdrehen.
c) Antriebsriemen entfernen.
d) Leiterplatte entrasten (4 Clips) und abnehmen

1. Service Notes

1.1 Disassembly

1.1.1 Top cover

a) Remove 5 screws from the rear.
b) Pull the top cover slightly backwards and lift.

1.1.2 Front panel

a) Remove two screws on the front left and right side of the cassette housing.
b) Bend the 4 top hooks of the front panel upwards to disengage them from their chassis retainers.
c) Disengage two lower hooks of the front panel and pull the front panel forward and downward to remove.
d) Note: During reinstallation of the front panel, the cassette flap must be positioned behind the lever, on the right-hand side of the cassette holder (hold the flap in a horizontal position while engaging the front panel).

1.1.3 Key Display Board

a) Disconnect connectors BK14 and BK06.
b) Disengage 3 hooks on the upper edge of the KDB and remove the board in a forward and upward direction.

1.1.4 Front connection board (not in all cases)

a) Release the two clips at the upper edge of the board and remove the board in a forward and upward direction.

1.1.5 Bottom cover

a) Take out one screw from the base.
b) Release the clip in the center of the bottom cover (in the square hole), push the cover to the back and lift it.

1.1.6 Power Supply assy.

a) Remove 2 screws.
b) Remove the Power Supply Assy.

1.1.7 Main board assy. with Mecha Deck

a) Remove the centre screw from the base.
b) Remove the front panel and disconnect the cableconnections on the key display board.
c) Remove 2 screws on the left and right of the Mechadeck.
d) Release the 4 clips holding the rear section (socket support).
e) Release the 2 clips holding the main deck.
f) Release the clip at the rear left of the device.
g) Remove the Mecha Deck with the main board upwards.

1.1.8 Cassette housing

Before doing this step please do step 1.1.7.
a) Take out two screws at the left and the right side of the upper part of the cassette holder.
b) Remove the upper part of the cassette holder
c) Pull the remaining part to the upper end position.(Eject)
d) Lift the cassette holder at the side, which shows to the drum. Release the white levers (left and right of the cassette holder) and push the cassette holder towards the drum until the guide pins at the rear side come out of the guide rails.
f) Now pull the cassette holder in the opposite direction until the guide pins at the front side also come out of the guide rails.

1.1.9 Separate Main board from Mecha Deck

Before doing this step please do step 1.1.7.
a) Disconnect the cable connection BT002 (function control motor), BV001 (drum motor) and BN003 (HIFI).
b) Take off one screw marked with an arrow from the solder side of the main board.
c) Remove the capstan belt.
d) Release the 4 clips and remove the main board.

1.2 Exchange of the drum unit

Note:
To exchange the upper part of the drum unit, refer to the service manual :

«Drum Disassembly / Assembly »

1.2 Austausch der Kopftrommeleinheit

Anmerkung.
Um den oberen Teil der Trommel auszuwechseln, beziehen Sie sich bitte auf das Handbuch:

«Mechanische Einstellungen R4000»

1.3 Service Einstellungen

1.3.1 Einrichten der Bedienteil-Software

Es ist notwendig den KDB-Prozessor über die bestehende Hardware-Konfiguration zu informieren. Dies wird bereits ab Werk konfiguriert und in den EEPROM abgelegt.

1. Videorecorder vom Netz trennen.
2. Tasten "-" und "+" an der Frontseite gedrückt halten und dabei den Recorder am Netz anschließen.

Für Gerät mit 18 Ziffern:
Auf dem TV-Schirm werden 18 Ziffern angezeigt, die den aktuellen Zustand des Gerätes anzeigen.
Im Display erscheint "SETUP".
In diesem SERVICE EINSTELLUNGS-Modus können gewisse Werte in Funktion spezifischer Charakteristika eingegeben werden. Die 18 Ziffern, die Ihrem Gerät entsprechen finden Sie auf Seite 9. Die jeweils einzustellende Ziffer blinkt auf dem Bildschirm. Die Eingaben werden mit den Zifferntasten auf der Fernbedienung durchgeführt. Nachdem alle 18 Ziffern eingegeben wurden, blinkt die erste Ziffer wieder.
Um die neuen Einstellungen abzuspeichern, drücken Sie bitte die STOP Taste. Sie können den Service Mode auch verlassen, ohne abzuspeichern. Dazu drücken Sie bitte die EXIT Taste auf der Fernbedienung.
Wenn Sie die neuen Werte abgespeichert haben, dauert es einige Sekunden, bis diese in das EEPROM geschrieben sind. Während dieser Zeit bleibt das Display dunkel.

Für Gerät mit 14 Ziffern:
Auf dem TV-Schirm werden 14 Ziffern angezeigt, welche die aktuellen Voreinstellungen angeben.
Die Tasten1, 3, 4, 5, 6, 7, 8, 9, 0 drücken, um den Service-Datenwert von 0 zu F zu erhöhen, und 2 drücken, um zur nächsten Nummer überzugehen.
In diesem Service-Einrichtungsmodus können einige dem Videorecordertyp entsprechende Einstellungen vorgenommen werden. Die Ihrem Gerät entsprechende Nummer aus 14 Ziffern finden Sie in der Tabelle auf Seite 3. Die jeweils einzustellende Ziffer blinkt auf dem Bildschirm. Die Eingabe erfolgt mit den Tasten der Fenbedienung. Nachdem alle 14 Ziffern eigegeben wurden, blinkt wieder die erste Ziffer. Zum Abspeichern der neuen Einstellungen drücken Sie die Taste „STOP" der Fernbedienung. Sie können den Service-Modus auch ohne Abspeichern verlassen. Zu diesem Zweck drücken Sie die Taste „E" oder „OFF" der Fernbedienung.
Wenn Sie die neuen Werte abgespeichert haben, dauert es einige Sekunden, bis diese in das EEPROM geschrieben sind. Während dieser Zeit bleibt die Anzeige dunkel.

Die Taste "Schneller Vorlauf (>>)" dient zur Auswahl der zweiten Seite des Service Modes. Diese Seite enthält die Funktion «Auto Diagnose». Sie finden mehr Details im Paragraph 1.4.

Hinweis:
Nach der Änderung der Einstellungen im Service Mode ist es erforderlich, den Kopftrommel - Umschaltpunkt neu zu setzen.

1.3.2 Kopf-Trommel-Umschaltpunkt

Legen Sie eine schreibgeschützte Meßkasette in das Videogerät. Die Wiedergabe startet automatisch. Wenn «START. E ---» angezeigt wird, drücken Sie die «STATUS»Taste auf der Fernbedienung. Drücken Sie gleichzeitig die Tasten «+»,«-» danach «PLAY ▶ » auf der Frontseite (Halten Sie die drei Tasten fest). Es wird "EINST." angezeigt. Das Videogerät bleibt im Wiedergabebetrieb. Beenden Sie nach eingen Sekunden diese Einstellung durch Drücken von «PLAY ▶ » auf der Frontseite. (Sehen Sie unter § 2.2.4 betr. der elektrischen Einstellungen nach)

1.3 Service Adjustments

1.3.1 KDB Software Set-Up for R5000

It is necessary to inform the KDB processor which hardware configuration is present. This is done in the factory and the selections stored in the EEPROM.
1. Disconnect the VTR from the mains.
2. Hold keys « - » and « +» pressed and connect the VTR to the mains. (For VCR without these keys, use « STOP », « PLAY » and « STANDBY » keys instead). And release « - » and « + » keys.

For models with 18 digits:
On the TV screen 18 digits are shown, representing the actual Setup values.
The display shows «SETUP».
In this SERVICE SET UP mode, some VTR-TYPE specific settings can be done. The number of 18 digits corresponding to your set is given at the page 9. The actual digit for the input is flashing on the screen. The inputs are done by the numeric keys on the remote control. After the input of all 18 digits, the first digit is flashing again. Store the new settings by pressing the STOP key on the remote control. You can also leave the SERVICE SET UP mode without storing the new settings. To do so, please press the EXIT key on the remote control.
If you have decided to store the new settings, it takes some seconds to initialise the EEPROM. During this time the display remains dark.

For models with 14 digits:
On the On Screen Display (OSD) 14 digits are shown, representing the actual Setup values.
Press 1,3,4,5,6,7,8,9,0 to increase service data value from 0 to F and press 2 to go to next number.
In this SERVICE SET UP mode, some VTR-TYPE specific settings can be done. The number of 14 digits corresponding to your set is given in the page 3 table. The actual digit for the input is flashing on the screen. The inputs are done by the keys on the remote control. After the input of all 14 digits, the first digit is flashing again. Store the new settings by pressing the STOP key on the remote control. You can also leave the SERVICE SET UP mode without storing the new settings. To do so, please press the « E » or « OFF » key on the remote control.
If you have decided to store the new settings, it takes some seconds to initialise the EEPROM. During this time the display remains dark.

The key «FAST FORWARD» is used to switch over to the second page of the Service Mode. This page introduces the Auto Diagnostic function. You will find more details of this in Paragraph 1.4.

Important note:
After the modification of the settings in the Service mode, a new adjustment of the HEAD SWITCHING POINT is necessary.

1.3.2 Head switching point

Insert a protected adjustment test cassette into the video recorder. Playback is set automatically. When the display shows PLAY E— press the key "STATUS" on the remote control. After that, press «+», «-» keys and «PLAY»key on the front panel (Hold all three keys pressed).The display indicates ADJ. The VCR will stay in PLAY mode. After a few seconds, stop the adjustment by pressing «PLAY» key on the front panel.
(see point. 2.2.4 of the electrical adjustments)

1.3.3 Sprachumschaltung

Taste "STATUS" der Fernbedienung gedrückt halten, bis die gewünschte Sprache im Display und auf dem Bildschirm erscheint.

1.4 Auto-Diagnose

Wenn ein mechanischer Fehler auftritt oder nach einem Bedienungsfehler, wird eine Zahl von 10 Ziffern, welche die Fehlfunktion darstellt, im EEPROM gespeichert.
Die angezeigte Zahl auf dem Schirm kann durch Vergleich mit der Tabelle auf S.6 hilfreich sein, das aufgetretene Problem zu lösen.

1.4.1 Anzeige einer Fehlermeldung

Die Fehlermeldung kann auf 2 Arten erfolgen:
a) Wenn die Seite «SERVICE EINSTELLUNGEN» auf dem Schirm ist, drücken Sie «<< Schneller Vorlauf «>>» auf der Fernbedienung.
b) Im **STOP oder STANDBY Modus**, wenn keine Anzeige auf dem Schirm ist, drücken Sie mindestens 10 Sekunden auf LÖSCHEN.

1.4.2 Interpretation der Fehlermeldung

Die Bedeutung der verschiedenen Ziffern, welche die Fehlermeldung darstellen, wird in nachstehender Tabelle angegeben.

1.3.3 Language selectlon

Keep the STATUS key pressed down, to choose the language of the menus on the display and on the TV screen.

1.4 Auto Diagnostic

When a mechanical problem or operating error occurs, a 10-digit number representing the malfunction is stored in the EEPROM memory.
This number is displayed on the screen and, when analysed, assists in finding a solution to the problem.

1.4.1 Error Message Display

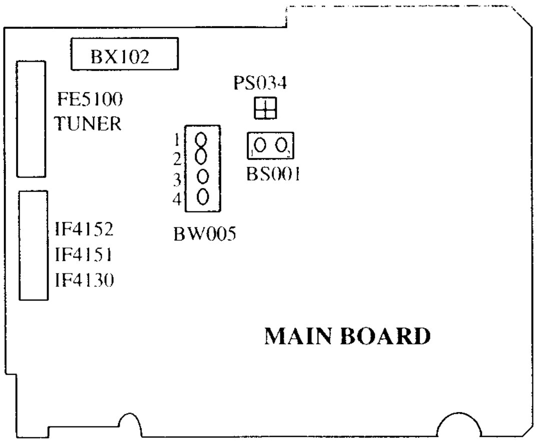
The error message can be displayed in two ways:
a) When the «SERVICE SETUP» page is displayed on the screen, press the FAST FORWARD key «>>» of the remote control.
b) In **STOP or STANDBY modes**, when there is no display on the television screen, press the ERASE key, holding for at least 10 seconds.

1.4.2 Interpretation of Error Message

The meaning of the various error message digits is given in the table below.

Number of digit	Meaning	Value
1 and 2	Target mechadeck and current mechadeck positions	1 - Wind 2 - Stop 3 - Standby 3 - Play 4 - Rev 5 - Loading / Unloading 6 - Off 7 - Eject F - Initial
3 and 4	Task servo is performing	00 - Stop 01 - FRew 02 - FF 04 - Play 11 - Rev 12 - Cue 44 - Record 84 - Still C4 - Rec Pause 40 - Rec / Rec P 10 - Search mode
5,6 and 7,8	Task active prior to abnormal off	bit 0
	Normal	0 0 0 0
	Record	0 0 0 1
	Step	0 0 0 4
	Off	0 0 0 8
	Eject	0 0 1 0
	Stop	0 0 2 0
	Capbrake	0 0 4 0
	Initial	0 0 8 0
	Endless Record	0 2 0 0
	Endless Play	0 4 0 0
	Continuous	0 8 0 0
	Wind	1 0 0 0
	Search	2 0 0 0
	Still	4 0 0 0
	Play	8 0 0 0
9 and 10	Abnormal flags	81 - Drum 82 - Left Reel 84 - Right Reel 88 - Task incomplete

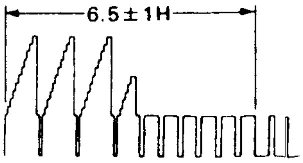
2. ELECTRICAL ADJUSTMENTS - ELEKTRISCHE EINSTELLUNGEN



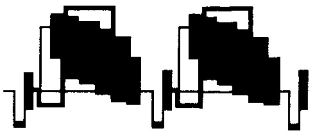
2.2. Measurements Servo Part - Main board
Messungen Servoteil - Hauptleiterplatte

Note: low level < 0.8V; high level > 4.0V

Anmerkung: L-Pegel < 0,8 Volt; H-Pegel > 4,0 Volt

N°	Item Einstellung	Mode & signal Betriebs-art	Test equipment Input signal Meßmittel Eingangssignal	Test point Meßpunkt	Adjustment Point Einstell-Punkt	Description Beschreibung
2.2.1	Oscillator frequency	E.E.	Frequency counter	IT001 (pin 63)	PT001	Adjust for 4 MHz ± 40 Hz
	Oszillator Frequenz	E.E.	Frequenz-zähler	IT001 (pin 63)	PT001	4 MHz ± 40 Hz einstellen
2.2.2	Drum FF (A / V SWP)	REC/PB	Oscilloscope	BW005 / 3	None	Confirm 25 Hz signal
	Kopftrommel-Flip-Flop	REC/PB	Oszilloskop	BW005 / 3	Kein Abgleich	25 Hz Signal überprüfen
2.2.3	Capstan FG frequency	PB / REC (SP)	Frequency counter	IT001 (pin 44)	None	Confirm 757 Hz ± 10 Hz
	Capstan FG Frequenz	PB / REC (SP)	Frequenz-zähler	IT001 (pin 44)	Kein Abgleich	757 Hz ± 10 Hz überprüfen
2.2.4	Head switching point	PB	Dual trace Oscilloscope Trigger ext. BW005/3 (Drum FF)	SCART AV1 (pin 19)	Adjustment by software setup	1. Insert alignment test cassette. 2. When the display shows «PLAY E----» press the STATUS key on remote control. 3. Press «+» , «-» and «PLAY». 4. Display shows «ADJ». 5. Confirm that head switching point is 6.5 H ± 1H before vert. synchro. 6. Stop the adjustment by pressing Play key on the front panel. 
	Kopf-Trommel-Umschaltpunkt	PB	Zweistrahl-Oszilloskop; Externer Triggerpkt. BW005/3 (Drum FF)	SCART AV1 (pin 19)	Software-Einstellung	1. Geschützte Meßkassette einlegen 2. Taste "STATUS" auf Fernbedienung drücken, sobald Display "PLAY E---" anzeigt. 3. Tasten "+" und "-" gedrückt halten und zusätzlich Taste "PLAY ▶ " drücken. 4. Display zeigt "ADJ". 5. Prüfen, ob Kopfumschaltpunkt 6,5 H ±1 H vor dem Vertikal-Synchronimpuls liegt. 6. Beenden Sie die Einstellung durch Drücken der Taste "PLAY ▶ " des Videorecorders.

2.3. Video signal processing (Main board)
Video signalteil (Hauptleiterplatte)

N°	Item Einstellung	Mode & signal Betriebsart	Test equipment Input signal Meßmittel Eingangssignal	Test point Meßpunkt	Adjustment Point Einstell-Punkt	Description Beschreibung
2.3.1	EE Level	EE Colour bar 1Vpp (AV1 pin20)	Oscilloscope	AV1 pin 19 (without load)	None	Check for 2.0Vpp±0.1Vpp
	E-E - Pegel	E-E Farbbalken, (AV1 pin20)	Oszilloskop	Anschluß 19 von AV1 ohne Scartstecker	Kein Abgleich	 2.0 Vss ±0,1 Vss messen
2.3.2	FM REC level	REC without signal	Oscilloscope	TV200 (emitter)	None	Check for 800mVpp
	FM-Aufnahme-Pegel	REC ohne Signal	Oszilloskop	TV200 (Emitter)	Kein Abgleich	800 mVss überprüfen
2.3.3	PAL chroma REC level	REC PAL colour bar 1Vpp AV1 pin20	Oscilloscope	IV001 (pin 38)	None	Check for 200mVpp±10% burst amplitude
	PAL Farbaufnahme-Pegel	REC PAL Farbbalken 1Vpp AV1 pin20	Oszilloskop	IV001 (pin 38)	Kein Abgleich	200 mVss ±10 % Burstamplitude überprüfen
2.3.4 (Not for all sets)	SECAM Anti Bell filter (1.0715 MHz)	REC SECAM colour bar 1Vpp AV1 pin20	Oscilloscope	IC100 (pin 28)	PC103	Adjust such that the magenta bar in R-Y and B-Y have the same amplitude
Nur für Multistandardgeräte	Anti Bell Filter SECAM (1.0715 MHz)	REC SECAM Farbbalken 1Vpp AV1 pin20	Oszilloskop	IC100 (pin 28)	PC103	So einstellen, dass die Magentabalken in R-Y und B-Y dieselbe Amplitude haben
2.3.5 (Not for all sets)	SECAM Bell filter (4.286 MHz)	REC SECAM coul. 1Vpp (AV1 pin20)	Oscilloscope	IC100 (pin 26)	PC104	Adjust such that the magenta bar in R-Y and B-Y have the same amplitude
Nur für Multistandardgeräte	Bell Filter SECAM (4.286 MHz)	Farbbalken 1V ss an AV1 pin 20	Oszilloskop coul. 1Vpp	IC100 (br 26)	PC104	So einstellen, daß die Magentabalken in R-Y und B-Y dieselbe Amplitude haben
2.3.6 (Not for all sets)	SECAM chroma REC level	REC SECAM colour bar 1Vpp AV1 pin20	Oscilloscope	IC100 (pin 28)	None	Check for 100mVpp± 10% magenta bar amplitude
Nur für Multistandardgeräte	SECAM Farbaufnahme-Pegel	REC SECAM Farbbalken 1Vss AV1 pin20	Oszilloskop	IC100 (pin 28)	Kein Abgleich	Magenta Farbbalken auf eine Amplitude von 100 mVss ±10 % überprüfen

2.4. On screen display (Main board)
OSD - Hauptleiterplatte

N°	Item Einstellung	Mode & signal Betriebs-art	Test equipment Input signal Meßmittel Eingangssignal	Test point Meßpunkt	Adjustment Point Einstell-Punkt	Description Beschreibung
2.4.1	OSD chroma oscillator		Frequency counter	Via 4k7 to IT001 (pin78)	None	Confirm 17.734475MHz±500Hz
	OSD Chroma-Oscillator		Frequenzzähler	pin78 IT001 über 4k7	Kein Abgleich	Überprüfen der 17,734475 MHz ± 500 Hz .

2.5. Audio signal processing (Main board) - Audio Signalverarbeitung-Hauptleiterplatte

N°	Item Einstellung	Mode & signal Betriebs-art	Test equipment Input signal Meßmittel Eingangssignal	Test point Meßpunkt	Adjustment Point Einstell-Punkt	Description Beschreibung
2.5.1	Bias oscillator frequency	REC (without signal)	frequency counter (high impedance probe)	BS031 / 1	None	Check for 70 kHz ±7 kHz
	Löschoszillator Frequenz	REC (ohne Signal)	Frequenzzähler über 10:1 Tastkopf	BS031 / 1	Kein Abgleich	Prüfen, f = 70 kHz ±7 kHz
2.5.2	Bias level adjustment	REC (without signal)	Oscilloscope	BS031 / 3		Adjust for V = 70Vpp ±10V
					PS034	other way
			Millivoltmeter	BS001 1-2		Adjust for V = 3mV ± 0.1mV
	Vormagne-tisierungs-Einstellung	REC (ohne Signal)	Oszilloskop	BS031 / 3	PS034	Auf V = 70Vss ±10V einstellen
						andere Methode
			Milli-Voltmeter	BS001 1-2		Auf V = 3mV ± 0,1mV einstellen

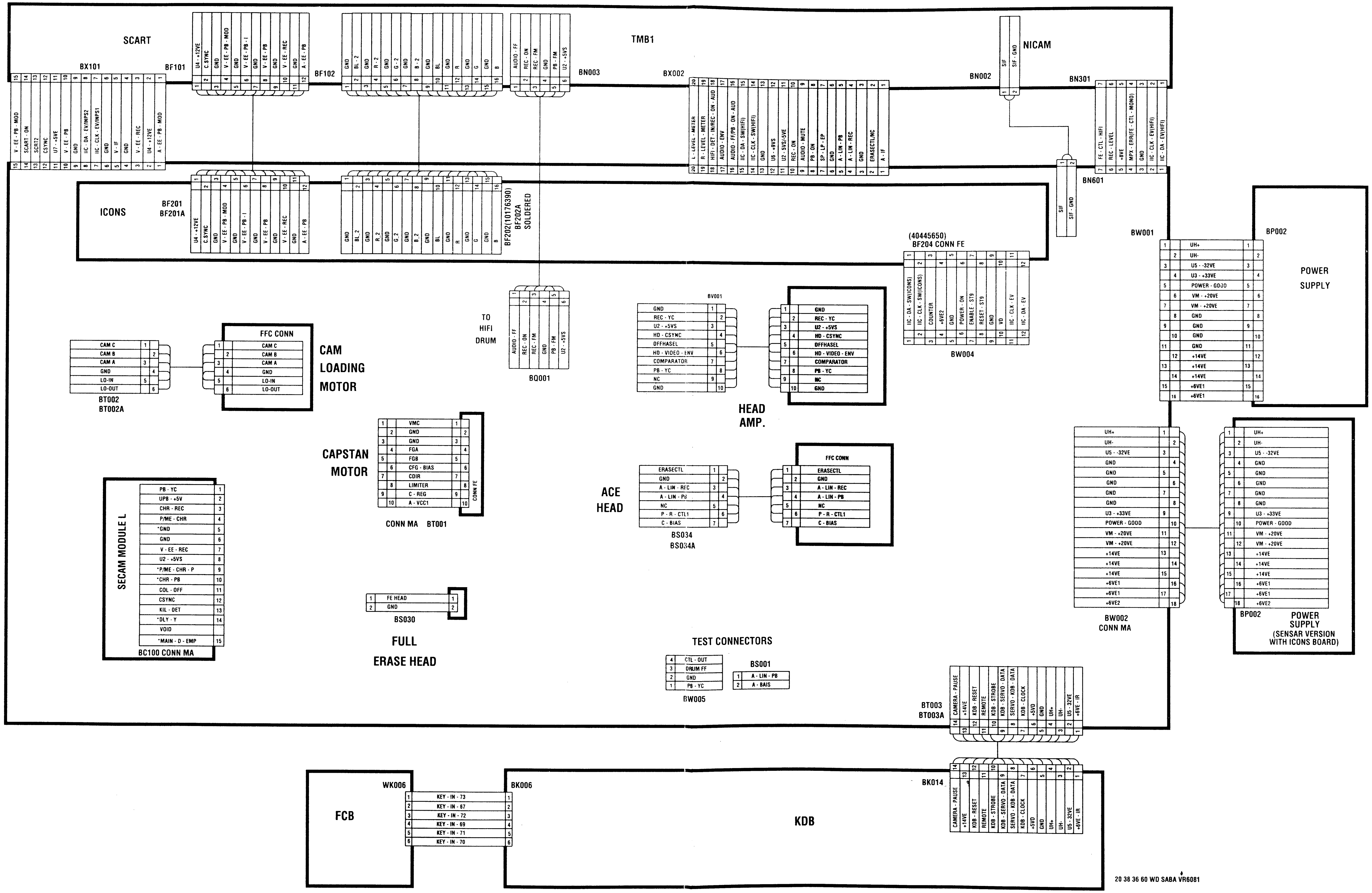
SERVICE SETUP VALUES - VALEURS DU SETUP (MODE SERVICE) - SERVICE MODE EINSTELLUNGEN - VALORI SERVICE SETUP - VALORES DE CONFIGURACION DEL MODO SERVICIO

MODEL	SERVICE SETUP VALUE																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
VPH 6600 N	0	0	0	2	2	0	1	9	6	0	0	9	1	1	2	4	1	4
VPH 6601	5	1	0	8	2	2	2	3	2	3	0	3	0	3	2	4	1	0
VPH 6680	0	0	0	2	5	0	3	1	6	7	1	5	1	1	2	4	1	5
VPH 6697SENSAR	7	2	0	9	1	1	3	1	2	7	0	7	1	1	3	4	1	0
VPH 6750	0	1	1	0	9	E	4	C	3	0	9	9	8	A				
VPH 6751	0	1	0	8	2	2	1	9	2	4	0	1	1	1	3	5	1	0
VPH 6780	0	0	0	2	5	0	3	1	6	7	1	5	1	1	3	5	1	5
VPH 6790	0	0	0	3	5	0	3	1	6	7	0	7	1	1	7	5	1	5
T 8006 HIFI	5	1	0	8	1	2	1	9	2	0	0	1	0	9	0	4	0	0
M 9560 HIFI	4	1	0	8	2	2	1	9	2	0	0	9	0	3	2	4	1	0
M 9560 SA	4	2	0	9	2	1	2	3	2	3	0	3	0	3	2	4	1	0
M 9571 HIFI	4	1	0	2	2	2	3	1	6	7	1	5	0	3	7	6	1	0
M 9680 HIFI	4	0	0	2	2	2	3	1	6	7	1	5	1	1	2	4	1	5
V 3450 SV	5	1	0	8	2	2	2	3	2	3	0	1	0	3	2	4	1	0
VR 6081	5	1	0	8	2	2	1	9	2	0	0	1	0	3	2	4	0	3
VR 6087 / F	5	0	0	1	2	0	2	3	6	3	0	1	0	3	2	4	0	3
VR 7081	5	1	0	8	2	2	1	9	2	0	0	1	1	1	2	4	1	0
VR 8083 H	0	1	0	8	2	2	1	9	6	0	0	1	1	1	3	4	1	0
VR 8087	0	1	1	0	9	E	0	C	3	0	9	9	8	A				

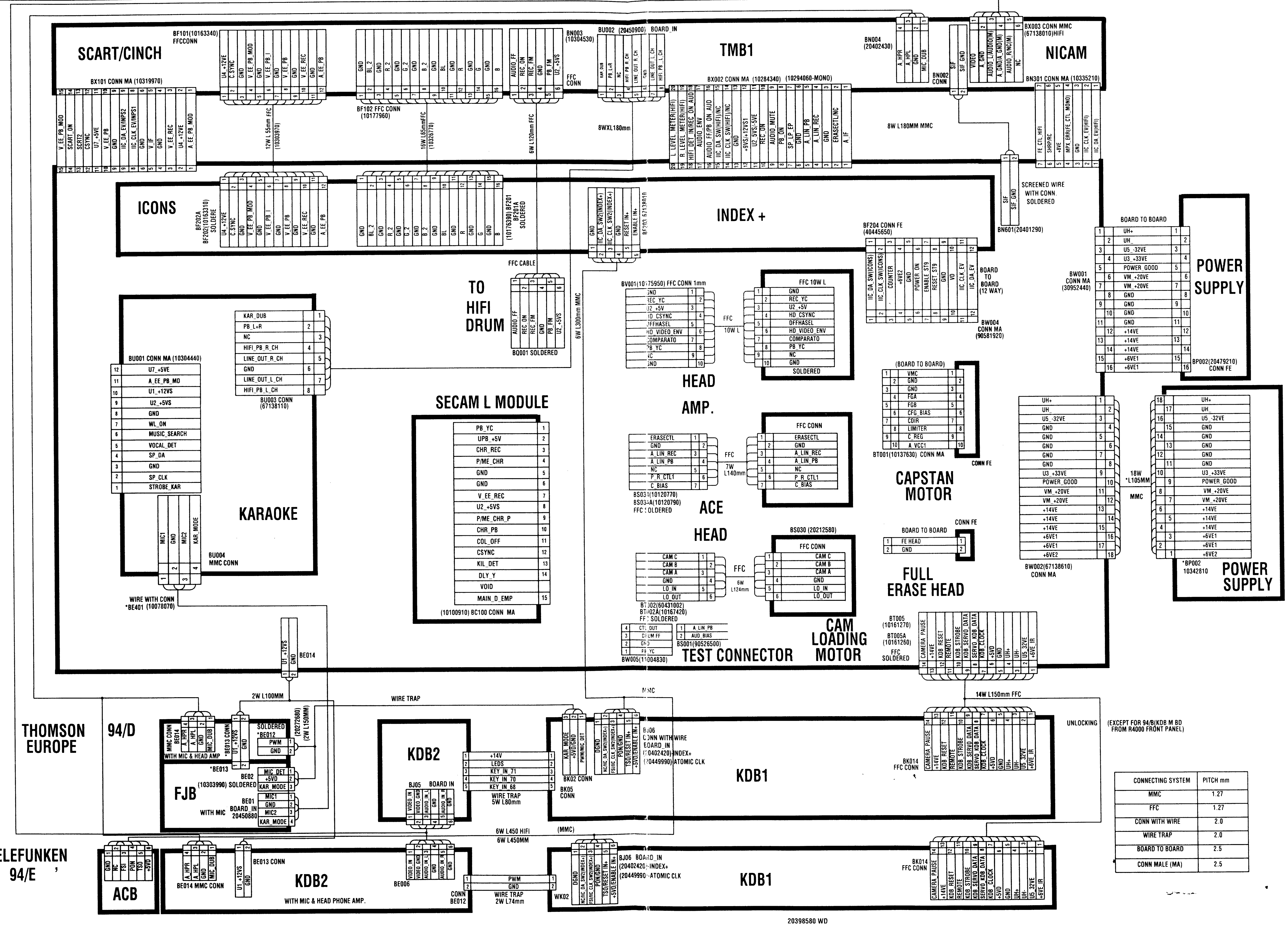
Abbreviations / Abreviations / Abkürzungen

AC	Alternating Current
ACC	Automatic Color Control
ACK	Automatic Color Killer
AD.REF	Analog/Digital Converter Reference
AE	Audio Erase
AFC	Automatic Frequency Control
AGC	Automatic Gain Control
A_IF	Audio IF
ALC	Automatic Level Control
AMP	Amplifier
APC	Automatic Phase Control
AP.CONT	Aperture Control
AV	Audio-Video
A/V SWP	Audio/Video Switching Point (DRUM FF)
B.EMPH	Burst Emphasis
B.DEEMPH	Burst Deemphasis
BG	Burst Gate
BID	Burst Identification
BLK	Blanking
BPF	Band Pass Filter
CAP	Capstan
CBC	Cable Box Control (Satellite Control)
CCD	Charge Coupled Device
CH	Channel
CFG	Capstan Frequency Generator
CLK	Clock
COMP	Comparator
CONV	Converter
CPWM	Capstan Pulse Width Modulation
C-REG	Capstan Regulation
CR	Color Rotary
CS	Chip Select
CSYNC	Composite Synch
CTL	Control
DC	Direct Current
D.LIM	Double Limitter
DEEMPH	Deemphasis
DET	Detector
D-FG	Drum Frequency Generator
DFF	Drum Flip Flop
DIF.EQ	Differential Equalizer
DIG	Digital
DLY	Delay
DOC	Drop Out Compensation
E-E	Electronic-Electronic
EMPH	Emphasis
ENV	Envelope
EP	Extended Play
EQ	Equalizer
F.E	Full Erase
F.REW	Fast Rewind
F.FWD	Fast Forward
F/R	Forward/Rewind
FCB	Front Connection Board
FF	Fast Forward
FG	Frequency Generator
FMCI	FM Carrier Interleave
FWD	Forward
GND	Ground
GCA	Gain Controlled Amplifier
HASEL	Head Amplifier Select
HAB	Head Amplifier Board
HD	Horizontal Synch Pulse
HPF	High Pass Filter
I.R	Infra Red
ID	Identification
INP/IN	Input
KDB	Key Display Board
LIM	Limitter
LP	Long Play
LPF	Low Pass Filter
MESECAM	Middle East Secam
NC	Noise Canceller
OSD	On Screen Display
PB	Play Back
PB_C	Play Back Chroma
PCB	Printed Circuit Board
PDC	Program Delivery Control
PG	Pulse Generator
PH	Pseudo Horizontal Synch
PIF	Picture IF
PLL	Phase Locked Loop
PS	Phase Switch
PV	Pseudo Vertical Synch
PWM	Pulse Width Modulation
REC	Record
REC_C	Record Chroma
REW	Rewind
REV	Reverse
SCL	Serial Clock
SDA	Serial Data
SEC	SECAM
SU REEL	Supply Reel
SMPS	Switch Mode Power Supply
SP	Standard Play
SS	Synch Separator
SW	Switch
TU REEL	Take Up Reel
TMB	Terminal Board
VAL	Components without value and not on the PCB
VCA	Voltage Controlled Amplifier
VCO	Voltage Controlled Oscillator
VCR	Video Cassette Recorder
VD	Supply Voltage Digital
VE	Voltage (Ever)
V_ENV	Video Envelope
V_IF	Video IF
VS	Voltage (Switched)
VM	Motor Voltage (Drum & Loading motor)
VMC	Motor Voltage (Capstan motor)
VPS	Video Program System
W/D	White/Dark
Y/C	Luminance/Chrominance

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VR 6081 - VR 6087/F)

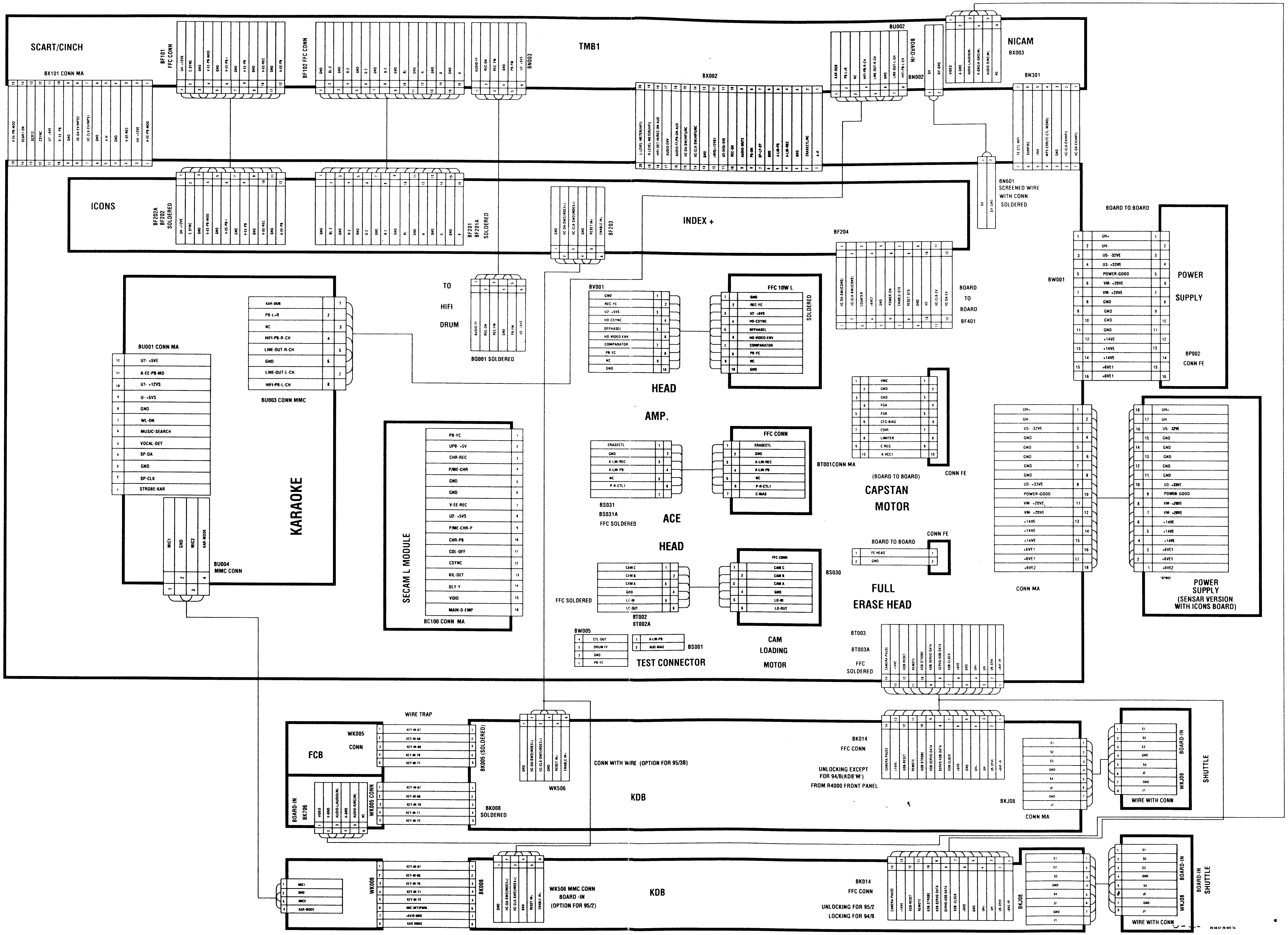

SCART
BX101
BF101
BF102
TMB1
BN003
BX002
NICAM
BN002
BN301
BN601
ICONS
BF201
BF201A
BF202(10176390)
BF202A
SOLDERED
(40445650)
BF204 CONN FE
BW004
BW001
BP002
POWER
SUPPLY
TO
HIFI
DRUM
BQ001
FFC CONN
CAM
LOADING
MOTOR
BT002
BT002A
BV001
HEAD
AMP.
CAPSTAN
MOTOR
CONN MA BT001
CONN FE
ACE
HEAD
BS034
BS034A
SECAM MODULE L
BC100 CONN MA
BW002
CONN MA
BP002
POWER
SUPPLY
(SENSAR VERSION
WITH ICONS BOARD)
FE HEAD
GND
BS030
FULL
ERASE HEAD
TEST CONNECTORS
CTL - OUT
DRUM FF
GND
PB - YC
BW005
BS001
A - LIN - PB
A - BAIS
BT003
BT003A
FCB
WK006
BK006
KEY - IN - 73
KEY - IN - 67
KEY - IN - 72
KEY - IN - 69
KEY - IN - 71
KEY - IN - 70
KDB
BK014
CAMERA - PAUSE
+14VE
KDB - RESET
REMOTE
KDB - STROBE
KDB - SERVO - DATA
SERVO - KDB - DATA
KDB - CLOCK
+5VD
GND
UH+
U5 - 32VE
+5VE - IR
CAM C
CAM B
CAM A
GND
LO-IN
LO-OUT
VMC
FGA
FGB
CFG - BIAS
CDIR
LIMITER
C - REG
A - VCC1
REC - YC
U2 - +5VS
HD - CSYNC
OFFHASEL
HD - VIDEO - ENV
COMPARATOR
NC
ERASECTL
A - LIN - REC
A - LIN - PB
P - R - CTL1
C - BIAS
PB - YC
UPB - +5V
CHR - REC
P/ME - CHR
V - EE - REC
U2 - +5VS
*P/ME - CHR - P
*CHR - PB
COL - OFF
CSYNC
KIL - DET
*DLY - Y
VOID
*MAIN - D - EMP
UH-
U5 - -32VE
U3 - +33VE
POWER - GOOD
VM - +20VE
+14VE
+6VE1
+6VE2
AUDIO - FF
REC - ON
REC - FM
PB - FM
U2 - +5VS
U4 - +12VE
C.SYNC
V - EE - PB - MOD
V - EE - PB - I
V - EE - PB
A - EE - PB
BL - 2
R - 2
G - 2
B - 2
BL
R
G
B
SIF
SIF - GND
L - LEVEL - METER
R - LEVEL - METER
HIFI - DET - IN/REC - ON - AUD
AUDIO - ENV
AUDIO - FF/PB - ON - AUD
IIC - DA - SW(HIFI)
IIC - CLK - SW(HIFI)
U6 - +9VS
U2 - 5VS/5VE
AUDIO - MUTE
PB - ON
SP - LP - EP
A - LIN - PB
A - LIN - REC
ERASECTL/NC
A - IF
FE - CTL - HIFI
REC - LEVEL
+9VE
MPX - ERR(FE - CTL - MONO)
IIC - CLK - EV(HIFI)
IIC - DA - EV(HIFI)
IIC - DA - SW(ICONS)
IIC - CLK - SW(ICONS)
COUNTER
+6VE2
POWER - ON
ENABLE - ST9
RESET - ST9
VD
IIC - CLK - EV
IIC - DA - EV
SCART - ON
SCHT2
CSYNC
U7 - +5VE
IIC - DA - EV/INPS2
IIC - CLK - EV/INPS1
V - IF
V - EE - REC
U4 - +12VE
A - EE - PB - MOD
20 38 36 60 WD SABA VR6081

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (M9571 HIFI - VR 8087 - VPH 6680 - VPH 6751)

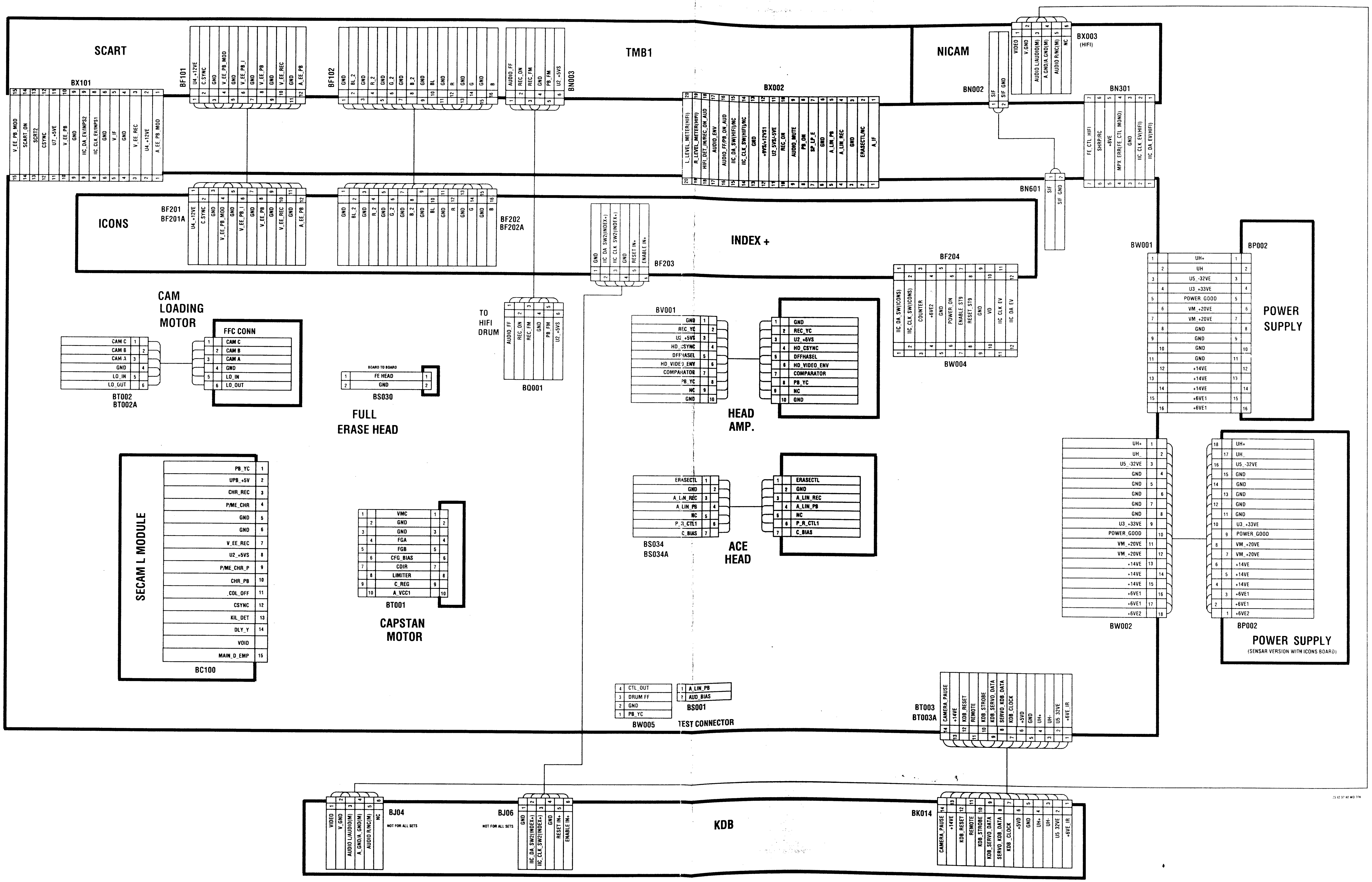

SCART/CINCH
BF101(10163340) FFCCONN
BX101 CONN MA (10319970)
V_EE_PB_MOD
SCART_ON
SCRT2
CSYNC
U7_+5VE
V_EE_PB
GND
IIC_DA_EVINPS2
IIC_CLK_EVINPS1
GND
V_IF
GND
V_EE_REC
U4_+12VE
A_EE_PB_MOD
U4_+12VE
C.SYNC
GND
V_EE_PB_MOD
GND
V_EE_PB_I
GND
V_EE_PB
GND
V_EE_REC
GND
A_EE_PB
12W L 55mm FFC (10303970)
GND
BL_2
GND
R_2
GND
G_2
GND
B_2
GND
BL
GND
R
GND
G
GND
B
BF102 FFC CONN (10177960)
16W L65mmFFC (10326770)
AUDIO_FF
REC_ON
REC_FM
GND
PB_FM
U2_+5VS
FFC CONN
6W L120mm FFC
BN003 (10304530)
BU002 (20450900) BOARD_IN
KAR_DUB
PB_L+R
NC
HIFI_PB_R_CH
LINE_OUT_R_CH
GND
LINE_OUT_L_CH
HIFI_PB_L_CH
8WXL180mm
TMB1
BX002 CONN MA (10284340) (10294060-MONO)
L_LEVEL_METER(HIFI)
R_LEVEL_METER(HIFI)
HIFI_DET_IN/REC_ON_AUD
AUDIO_ENV
AUDIO_FF/PB_ON_AUD
IIC_DA_SW(HIFI)/NC
IIC_CLK_SW(HIFI)/NC
GND
+9VS/+12VS1
U2_5VS/-5VE
REC_ON
AUDIO_MUTE
PB_ON
SP_LP_EP
GND
A_LIN_PB
A_LIN_REC
GND
ERASECTL/NC
A_IF
BN004 (20402430)
A_HPR
A_HPL
GND
MIC_DUB
BN002 CONN
8W L180MM MMC
SIF
SIF_GND
BX003 CONN MMC (67138010)HIFI
VIDEO
A_GND
AUDIO_L/AUDIO(M)
A_GND/A_GND(M)
AUDIO_R/NC(M)
NC
NICAM
BN301 CONN MA (10335210)
FE_CTL_HIFI
SHRP/RC
+8VE
MPX_ERR(FE_CTL_MONO)
GND
IIC_DA_EV(HIFI)
IIC_CLK_EV(HIFI)
SCREENED WIRE WITH CONN. SOLDERED
BN601(20401290)
ICONS
BF202A BF202(10163310) SOLDERE
(10176390) BF201 BF201A SOLDERED
INDEX +
GND
IIC_DA_SW2(INDEX+)
IIC_CLK_SW2(INDEX+)
GND
RESET IN+
ENABLE IN+
BF203 67138110
BF204 CONN FE (40445650)
IIC_DA_SW(ICONS)
IIC_CLK_SW(ICONS)
COUNTER
+6VE2
GND
POWER_ON
ENABLE_ST9
RESET_ST9
GND
VD
IIC_CLK_EV
IIC_DA_EV
BOARD TO BOARD (12 WAY)
BW004 CONN MA (90581920)
FFC CABLE
TO HIFI DRUM
BQ001 SOLDERED
6W L300mm MMC
BOARD TO BOARD
BW001 CONN MA (30952440)
UH+
UH_
U5_-32VE
U3_+33VE
POWER_GOOD
VM_+20VE
+14VE
+6VE1
POWER SUPPLY
BP002(20479210) CONN FE
KARAOKE
BU001 CONN MA (10304440)
U7_+5VE
A_EE_PB_MD
U1_+12VS
U2_+5VS
WL_ON
MUSIC_SEARCH
VOCAL_DET
SP_DA
SP_CLK
STROBE_KAR
BU003 CONN (67138110)
MIC1
MIC2
KAR_MODE
BU004 MMC CONN
WIRE WITH CONN *BE401 (10078070)
SECAM L MODULE
PB_YC
UPB_+5V
CHR_REC
P/ME_CHR
V_EE_REC
U2_+5VS
P/ME_CHR_P
CHR_PB
COL_OFF
CSYNC
KIL_DET
DLY_Y
VOID
MAIN_D_EMP
(10100910) BC100 CONN MA
BV001(10175950) FFC CONN 1mm
FFC 10W L
REC_YC
U2_+5V
HD_CSYNC
DFFHASEL
HD_VIDEO_ENV
COMPARATO
PB_YC
NC
SOLDERED
FFC 10W L
HEAD AMP.
(BOARD TO BOARD)
VMC
FGA
FGB
CFG_BIAS
CDIR
LIMITER
C_REG
A_VCC1
BT001(10137630) CONN MA
CONN FE
CAPSTAN MOTOR
FFC CONN
ERASECTL
A_LIN_REC
A_LIN_PB
P_R_CTL1
C_BIAS
FFC 7W L140mm
BS031(10120770) BS031A(10120790) FFC SOLDERED
ACE HEAD
BS030 (20212580)
CAM C
CAM B
CAM A
LO_IN
LO_OUT
FFC 6W L124mm
BT002(60431002) BT002A(10167420) FFC SOLDERED
CAM LOADING MOTOR
BOARD TO BOARD
FE HEAD
FULL ERASE HEAD
CONN FE
CTL_OUT
CTL_UM FF
FE_YC
A_LIN_PB
AUD_BIAS
BS001(90526500)
BW005(11004830)
TEST CONNECTOR
BT005 (10161270) BT005A (10161260) FFC SOLDERED
CAMERA PAUSE
+14VE
KDB RESET
REMOTE
KDB STROBE
KDB SERVO DATA
SERVO_KDB_DATA
KDB CLOCK
+5VD
U5_32VE
+6VE_IR
18W *L105MM MMC
BW002(67138610) CONN MA
*BP002 10342810
POWER SUPPLY
U1_+12VS
BE014
2W L100MM
WIRE TRAP
MMC
14W L150mm FFC
UNLOCKING
(EXCEPT FOR 94/B(KDB M BD FROM R4000 FRONT PANEL)
THOMSON EUROPE
94/D
MMC CONN BE014
WITH MIC & HEAD AMP
SOLDERED *BE012
PWM
(20272680) (2W L150MM)
*BE013
BE02
MIC_DET
+5VD
KAR_MODE
FJB
(10303990) SOLDERED
BE01 BOARD_IN 20450880
WITH MIC
KDB2
+14V
LEDS
KEY_IN_71
KEY_IN_70
KEY_IN_68
BJ05 BOARD IN
VIDEO_IN
VIDEO_GND
AUDIO_IN_L
AUDIO_IN_R
WIRE TRAP 5W L80mm
KAR MODE
+5VD/GND
PWM/MIC DET
BK02 CONN
BK05 CONN
DGND
NC/IIC_DA_SW2(INDEX+)
NC/IIC_CLK_SW2(INDEX+)
PON/GND
TSO/RESET IN+
+5VD/ENABLE IN+
BJ06 CONN WITH WIRE BOARD_IN (20402420) INDEX+ (20449990) ATOMIC CLK
KDB1
BK014 FFC CONN
6W L450 HIFI
6W L450MM
(MMC)
TELEFUNKEN 94/E
ACB
IR
FSI
PON
TSO
+5VD
BE014 MMC CONN
BE013 CONN
BE006
KDB2
WITH MIC & HEAD PHONE AMP.
CONN BE012
WIRE TRAP 2W L74mm
WK02
BJ06 BOARD_IN (20402420) INDEX+ (20449990) ATOMIC CLK
KDB1
BK014 FFC CONN
20398580 WD

CONNECTING SYSTEM	PITCH mm
MMC	1.27
FFC	1.27
CONN WITH WIRE	2.0
WIRE TRAP	2.0
BOARD TO BOARD	2.5
CONN MALE (MA)	2.5

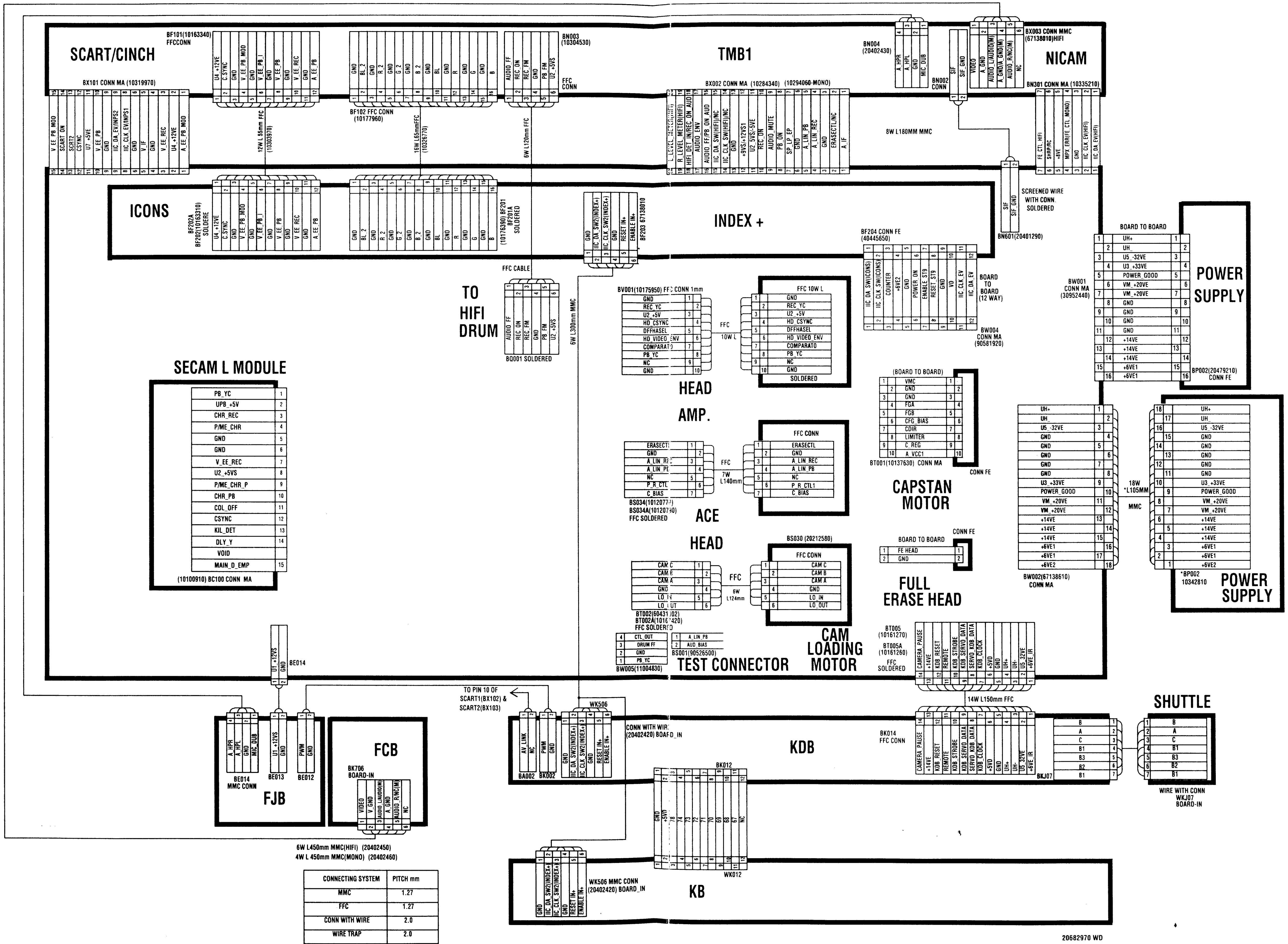
WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6601 - VPH 6697 SENSAR - VR 7061)


SCART/CINCH
BX101 CONN MA
BF101 FFC CONN
BF102 FFC CONN
BN003
TMB1
BX002
BU002
BOARD-IN
BN002
NICAM
BX003
BN301
ICONS
BF202A
BF202
SOLDERED
BF201
BF201A
SOLDERED
BF203
INDEX +
BN601
SCREENED WIRE
WITH CONN
SOLDERED
BF204
BOARD TO BOARD
BF401
BOARD TO BOARD
BW001
POWER
SUPPLY
BP002
CONN FE
TO
HIFI
DRUM
BQ001 SOLDERED
BU001 CONN MA
BU003 CONN MMC
KARAOKE
BU004
MMC CONN
BV001
FFC 10W L
SOLDERED
HEAD
AMP.
FFC CONN
BT001CONN MA
(BOARD TO BOARD)
CONN FE
CAPSTAN
MOTOR
BS031
BS031A
FFC SOLDERED
ACE
HEAD
BOARD TO BOARD
CONN FE
FULL
ERASE HEAD
SECAM L MODULE
BC100 CONN MA
FFC SOLDERED
BT002
BT002A
BS030
CAM
LOADING
MOTOR
BW005
BS001
TEST CONNECTOR
BT003
BT003A
FFC
SOLDERED
CONN MA
POWER
SUPPLY
(SENSAR VERSION
WITH ICONS BOARD)
WIRE TRAP
FCB
WK005
CONN
BK005 (SOLDERED)
WK506
CONN WITH WIRE (OPTION FOR 95/38)
KDB
BK014
FFC CONN
UNLOCKING EXCEPT
FOR 94/B(KDB'M')
FROM R4000 FRONT PANEL
BKJ08
CONN MA
WKJ08
BOARD-IN
SHUTTLE
WIRE WITH CONN
BOARD-IN
BK706
WK005 CONN
BK008
SOLDERED
WK008
BK008
WK506 MMC CONN
BOARD -IN
(OPTION FOR 95/2)
KDB
BK014
FFC CONN
UNLOCKING FOR 95/2
LOCKING FOR 94/B
BKJ08
WKJ08
BOARD-IN
SHUTTLE
WIRE WITH CONN

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6600 N - T8006 HIFI - M 9560 HIFI - M 9560 SA - M 9680 HIFI)

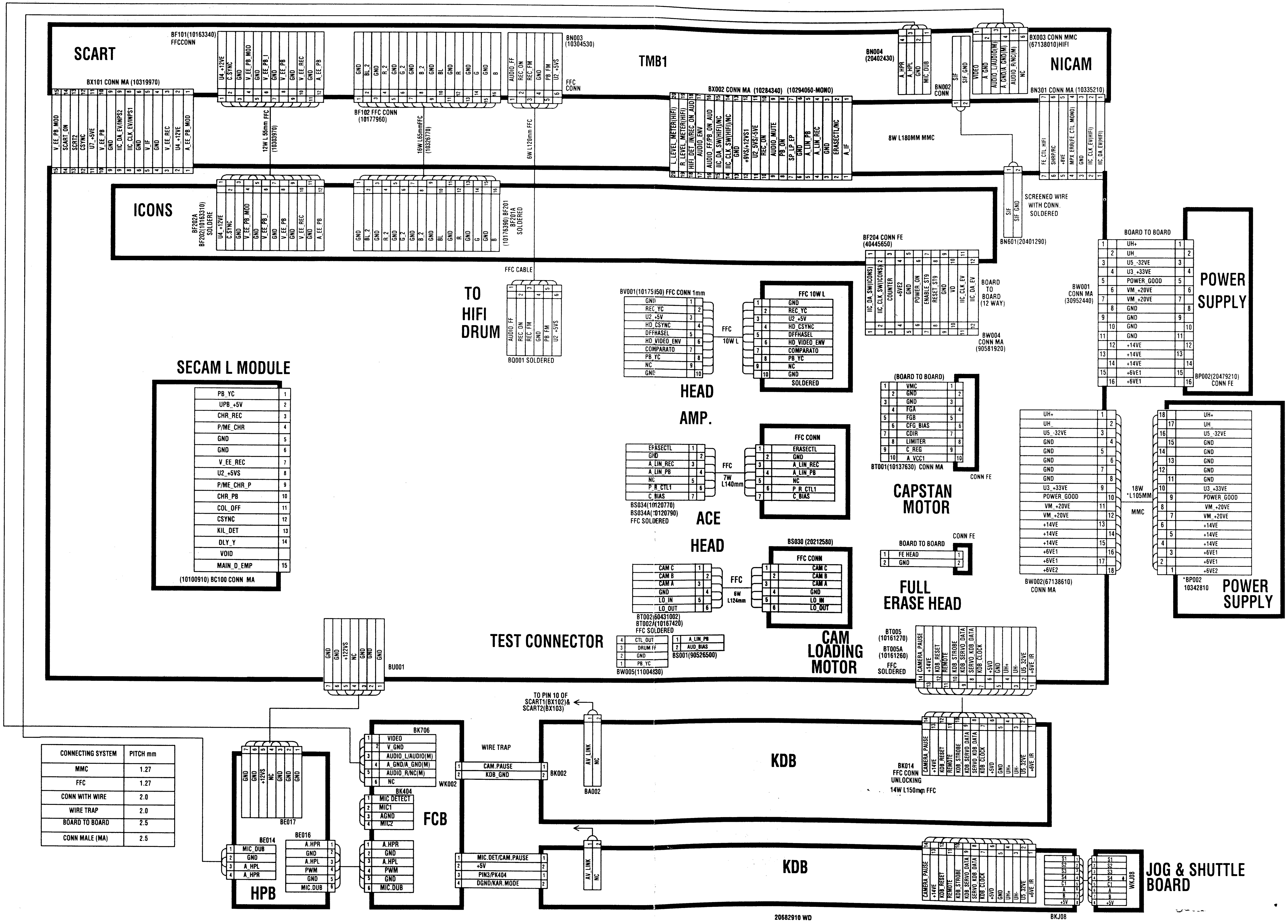

SCART
BX101
V_EE_PB_MOD
SCART_ON
SCRT2
CSYNC
U7_+5VE
V_EE_PB
GND
IIC_DA_EV/NPS2
IIC_CLK_EV/NPS1
GND
V_IF
GND
V_EE_REC
U4_+12VE
A_EE_PB_MOD
BF101
U4_+12VE
C_SYNC
GND
V_EE_PB_MOD
GND
V_EE_PB_I
GND
V_EE_PB
GND
V_EE_REC
GND
A_EE_PB
BF102
GND
BL_2
GND
R_2
GND
G_2
GND
B_2
GND
BL
GND
R
GND
G
GND
B
AUDIO_FF
REC_ON
REC_FM
GND
PB_FM
U2_+5VS
BN003
TMB1
BX002
L_LEVEL_METER(HIFI)
R_LEVEL_METER(HIFI)
HIFI_DET_IN/REC_ON_AUD
AUDIO_ENV
AUDIO_FF/PB_ON_AUD
IIC_DA_SW(HIFI)/NC
IIC_CLK_SW(HIFI)/NC
GND
+9V5/+12VS1
U2_5VS/-5VE
REC_ON
AUDIO_MUTE
PB_ON
SP_LP_E
GND
A_LIN_PB
A_LIN_REC
GND
ERASECTL/NC
A_IF
NICAM
BN002
SIF
SIF GND
VIDEO
V_GND
AUDIO L/AUDIO(M)
A_GND/A_GND(M)
AUDIO R/NC(M)
NC
BX003
(HIFI)
BN301
FE_CTL_HIFI
SHRP/RC
+6VE
MPX_ERR(FE_CTL_MONO)
GND
IIC_CLK_EV(HIFI)
IIC_DA_EV(HIFI)
BN601
SIF
SIF GND
ICONS
BF201
BF201A
BF202
BF202A
BF203
IIC_DA_SW2(INDEX+)
IIC_CLK_SW2(INDEX+)
RESET IN+
ENABLE IN+
INDEX +
BF204
BW004
IIC_DA_SW(ICONS)
IIC_CLK_SW(ICONS)
COUNTER
+6VE2
POWER_ON
ENABLE ST9
RESET ST9
VD
IIC CLK EV
IIC DA EV
BW001
BP002
POWER SUPPLY
UH+
UH
U5_-32VE
U3_+33VE
POWER GOOD
VM_+20VE
+14VE
+6VE1
CAM LOADING MOTOR
FFC CONN
CAM C
CAM B
CAM A
LO_IN
LO_OUT
BT002
BT002A
TO HIFI DRUM
BQ001
BOARD TO BOARD
FE HEAD
BS030
FULL ERASE HEAD
BV001
REC_YC
U2_+5VS
HD_CSYNC
DFFHASEL
HD_VIDEO_ENV
COMPARATOR
PB_YC
NC
HEAD AMP.
ERASECTL
A_LIN_REC
A_LIN_PB
P_R_CTL1
C_BIAS
BS034
BS034A
ACE HEAD
SECAM L MODULE
PB_YC
UPB_+5V
CHR_REC
P/ME_CHR
V_EE_REC
U2_+5VS
P/ME_CHR_P
CHR_PB
COL_OFF
CSYNC
KIL_DET
DLY_Y
VOID
MAIN_D_EMP
BC100
VMC
FGA
FGB
CFG_BIAS
CDIR
LIMITER
C_REG
A_VCC1
BT001
CAPSTAN MOTOR
BW002
U5_-32VE
+6VE2
POWER SUPPLY
(SENSAR VERSION WITH ICONS BOARD)
CTL_OUT
DRUM FF
BW005
AUD_BIAS
BS001
TEST CONNECTOR
BT003
BT003A
CAMERA_PAUSE
KDB_RESET
REMOTE
KDB_STROBE
KDB_SERVO_DATA
SERVO_KDB_DATA
KDB_CLOCK
+5VD
UH-
+5VE_IR
BJ04
NOT FOR ALL SETS
BJ06
KDB
BK014

WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6790)


SCART/CINCH
BF101(10163340) FFCCONN
BX101 CONN MA (10319970)
BF102 FFC CONN (10177960)
12W L 55mm FFC (10303970)
16W L65mmFFC (10326770)
6W L120mm FFC
BN003 (10304530)
FFC CONN
TMB1
BX002 CONN MA (10284340) (10294060-MONO)
BN004 (20402430)
BN002 CONN
8W L180MM MMC
BX003 CONN MMC (67138010)HIFI
NICAM
BN301 CONN MA (10335210)
SCREENED WIRE WITH CONN. SOLDERED
BN601(20401290)
ICONS
BF202A BF202(10163310) SOLDERE
(10176390) BF201 BF201A SOLDERED
BF203 67138010
INDEX +
BF204 CONN FE (40445650)
BOARD TO BOARD (12 WAY)
BW004 CONN MA (90581920)
FFC CABLE
TO HIFI DRUM
BQ001 SOLDERED
6W L300mm MMC
BV001(10175950) FFC CONN 1mm
FFC 10W L
HEAD AMP.
SOLDERED
SECAM L MODULE
(10100910) BC100 CONN MA
ACE HEAD
BS034(10120770) BS034A(10120760) FFC SOLDERED
7W L140mm
FFC CONN
(BOARD TO BOARD)
BT001(10137630) CONN MA
CONN FE
CAPSTAN MOTOR
BS030 (20212580)
6W L124mm
BT002(60431102) BT002A(10161420) FFC SOLDERED
BOARD TO BOARD
FE HEAD
FULL ERASE HEAD
CAM LOADING MOTOR
BS001(90526500)
BW005(11004830)
TEST CONNECTOR
BT005 (10161270) BT005A (10161260) FFC SOLDERED
BOARD TO BOARD
BW001 CONN MA (30952440)
POWER SUPPLY
BP002(20479210) CONN FE
18W *L105MM MMC
BW002(67138610) CONN MA
*BP002 10342810
POWER SUPPLY
BE014
TO PIN 10 OF SCART1(BX102) & SCART2(BX103)
WK506
BE014 MMC CONN
BE013
BE012
FJB
FCB
BK706 BOARD-IN
BA002
BK002
CONN WITH WIRE (20402420) BOARD_IN
KDB
BK014 FFC CONN
14W L150mm FFC
BKJ07
SHUTTLE
WIRE WITH CONN WKJ07 BOARD-IN
BK012
WK012
6W L450mm MMC(HIFI) (20402450)
4W L 450mm MMC(MONO) (20402460)
WK506 MMC CONN (20402420) BOARD_IN
KB
20682970 WD

CONNECTING SYSTEM	PITCH mm
MMC	1.27
FFC	1.27
CONN WITH WIRE	2.0
WIRE TRAP	2.0
BOARD TO BOARD	2.5
CONN MALE (MA)	2.5

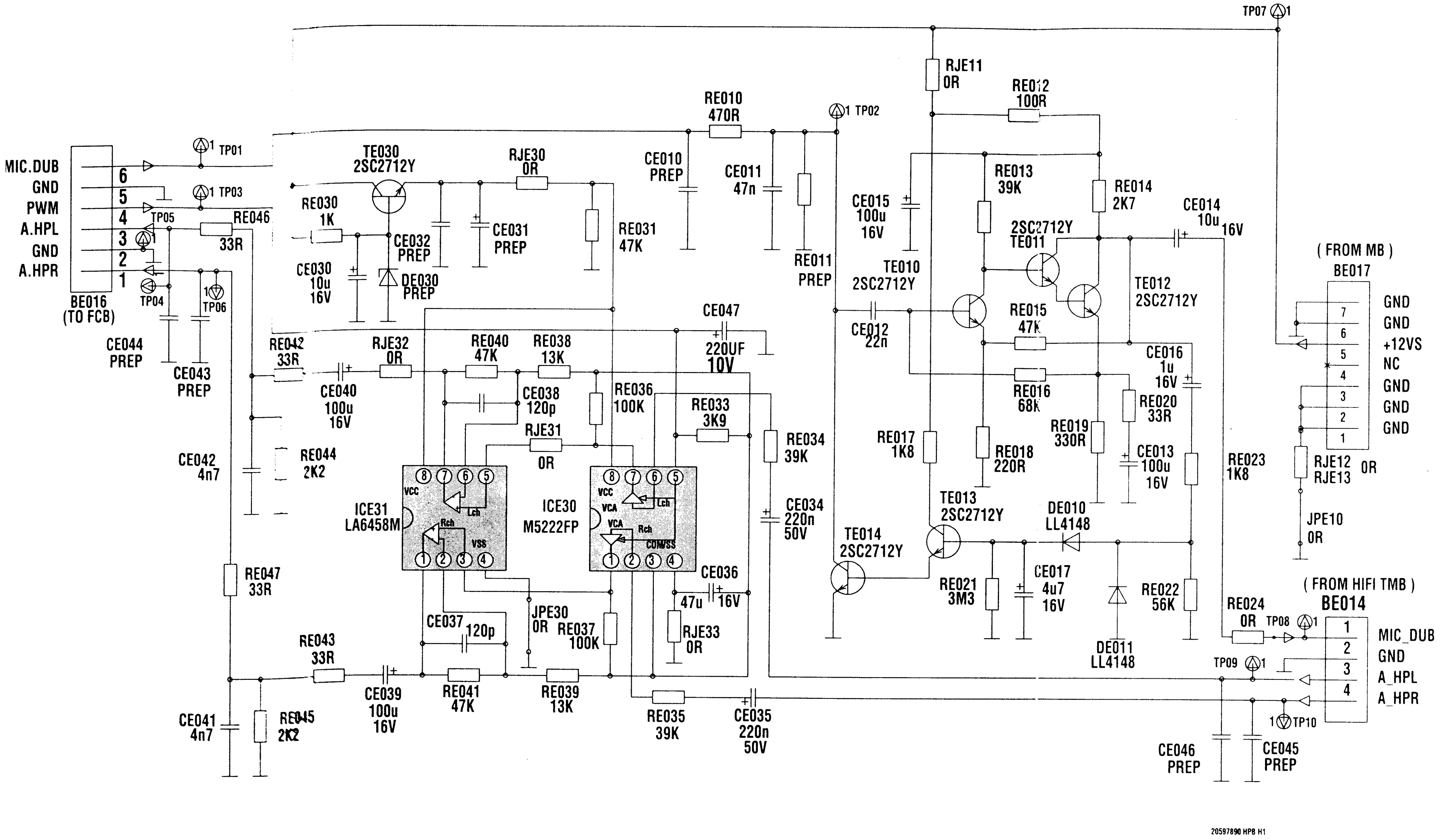
WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES (VPH 6750 - VPH 6780 - VR 8083H)


SCART
TMB1
NICAM
ICONS
BF101(10163340) FFCCONN
BX101 CONN MA (10319970)
BF102 FFC CONN (10177960)
BN003 (10304530)
FFC CONN
BN004 (20402430)
BN002 CONN
BX003 CONN MMC (67138010)HIFI
BX002 CONN MA (10284340) (10294060-MONO)
BN301 CONN MA (10335210)
12W L 55mm FFC (10303970)
16W L65mmFFC (10326770)
6W L120mm FFC
8W L180MM MMC
SCREENED WIRE WITH CONN. SOLDERED
BN601(20401290)
BF202A BF202(10163310) SOLDERE
(10176390) BF201 BF201A SOLDERED
BF204 CONN FE (40445650)
BOARD TO BOARD (12 WAY)
BW004 CONN MA (90581920)
BOARD TO BOARD
BW001 CONN MA (30952440)
POWER SUPPLY
BP002(20479210) CONN FE
FFC CABLE
TO HIFI DRUM
BQ001 SOLDERED
BV001(10175450) FFC CONN 1mm
FFC 10W L
HEAD AMP.
SECAM L MODULE
(10100910) BC100 CONN MA
FFC CONN
FFC 7W L140mm
BS034(10120770) BS034A(10120790) FFC SOLDERED
ACE HEAD
(BOARD TO BOARD)
BT001(10137630) CONN MA
CONN FE
CAPSTAN MOTOR
18W *L105MM MMC
BW002(67138610) CONN MA
*BP002 10342810
POWER SUPPLY
BS030 (20212580)
FFC 6W L124mm
BT002(60431002) BT002A(10167420) FFC SOLDERED
TEST CONNECTOR
BW005(11004830)
BS001(90526500)
CAM LOADING MOTOR
BOARD TO BOARD
FE HEAD
FULL ERASE HEAD
BT005 (10161270) BT005A (10161260) FFC SOLDERED
BU001
TO PIN 10 OF SCART1(BX102)& SCART2(BX103)
BK706
WIRE TRAP
BK002
WK002
BA002
KDB
BK014 FFC CONN UNLOCKING 14W L150mm FFC
BK404
FCB
BE017
BE014
BE016
HPB
KDB
JOG & SHUTTLE BOARD
WKJ08
BKJ08
20682910 WD

CONNECTING SYSTEM	PITCH mm
MMC	1.27
FFC	1.27
CONN WITH WIRE	2.0
WIRE TRAP	2.0
BOARD TO BOARD	2.5
CONN MALE (MA)	2.5

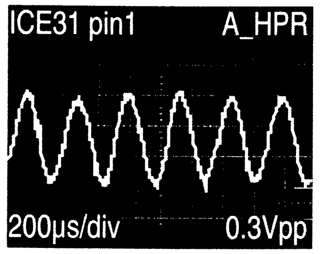
AMPLIFIER HEADPHONE/MICROPHONE BOARD - PLATINE AMPLIFICATEUR CASQUE/MICRO - VERSTÄRKERPLATTE KOPFHÖRER/MIKROFON - PIASTRA MICROFONO/AMPLIFICATORE CUFFIA - PLACA AMPLIFICADOR AURICULARES/MICRÓFONO (M 9680 HIFI)

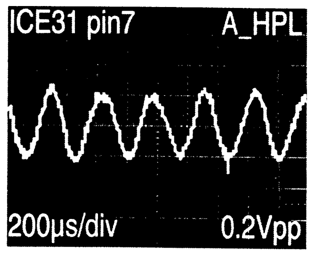
SCHEMATIC DIAGRAM -SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

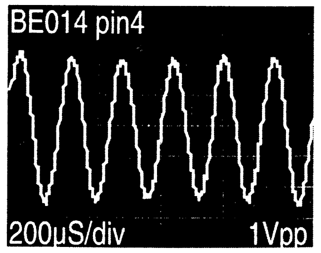

TP07
RJE11 0R
RE012 100R
RE010 470R
TP02
TP01
TP03
MIC.DUB
GND
PWM
A.HPL
GND
A.HPR
6
5
4
3
2
1
BE016 (TO FCB)
TP05
TP04
TP06
RE046 33R
TE030 2SC2712Y
RJE30 0R
CE010 PREP
CE011 47n
RE030 1K
CE032 PREP
CE031 PREP
RE031 47K
CE030 10u 16V
DE030 PREP
RE011 PREP
CE015 100u 16V
RE013 39K
RE014 2K7
CE014 10u 16V
2SC2712Y TE011
TE010 2SC2712Y
TE012 2SC2712Y
CE012 22n
RE015 47K
CE016 1u 16V
RE016 68K
RE020 33R
RE019 330R
CE013 100u 16V
RE017 1K8
RE018 220R
RE023 1K8
TE013 2SC2712Y
DE010 LL4148
TE014 2SC2712Y
RE021 3M3
CE017 4u7 16V
RE022 56K
DE011 LL4148
(FROM MB)
BE017
7 GND
6 GND
5 +12VS
4 NC
3 GND
2 GND
1 GND
RJE12 RJE13 0R
JPE10 0R
(FROM HIFI TMB)
BE014
RE024 0R
TP08
TP09
1 MIC_DUB
2 GND
3 A_HPL
4 A_HPR
TP10
CE046 PREP
CE045 PREP
CE044 PREP
CE043 PREP
RE042 33R
CE040 100u 16V
RJE32 0R
RE040 47K
RE038 13K
CE047 220UF 10V
CE038 120p
RE036 100K
RE033 3K9
RJE31 0R
RE034 39K
CE034 220n 50V
CE042 4n7
RE044 2K2
ICE31 LA6458M
ICE30 M5222FP
VCC
Lch
Rch
VSS
VCA
COM/SS
CE036 47u 16V
RE047 33R
JPE30 0R
RE037 100K
CE037 120p
RJE33 0R
RE043 33R
CE039 100u 16V
RE041 47K
RE039 13K
RE035 39K
CE035 220n 50V
CE041 4n7
RE045 2K2
20597890 HPB H1

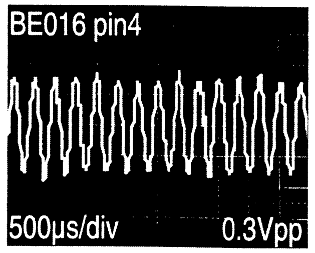
HPB		MODE		
LOC	PIN	EE	PLAY	REC.
ICE30	1	5.6	5.6	5.5
	2	5.6	5.6	5.6
	3	5.7	5.6	5.6
	4	0	0	0
	5	5.6	5.6	5.5
	6	5.6	5.6	5.6
	7	5.6	5.6	5.5
	8	11.4	11.4	11.3
ICE31	1	5.6	5.6	5.5
	2	5.6	5.6	5.6
	3	5.6	5.6	5.6
	4	0	0	0
	5	5.6	5.6	5.5
	6	5.6	5.6	5.6
	7	5.6	5.6	5.5
	8	11.4	11.4	11.3
TE030	E	11.4	11.4	11.4
	B	12.1	12.1	12
	C	12.2	12.2	12.2

HPB		MODE		
LOC	PIN	EE	PLAY	REC.
TE014	E	0	0	0
	B	0	0	0
	C	0	0	0
TE013	E	0	0	0
	B	0	0	0
	C	12.2	12.2	12.2
TE010	E	0	0	0
	B	0.7	0.6	0.6
	C	1.9	1.9	0
TE011	E	1.5	1.4	1.4
	B	2	1.9	1.9
	C	5	5	5
TE012	E	0.8	0.7	0.7
	B	1.5	1.4	1.4
	C	5.1	5	5

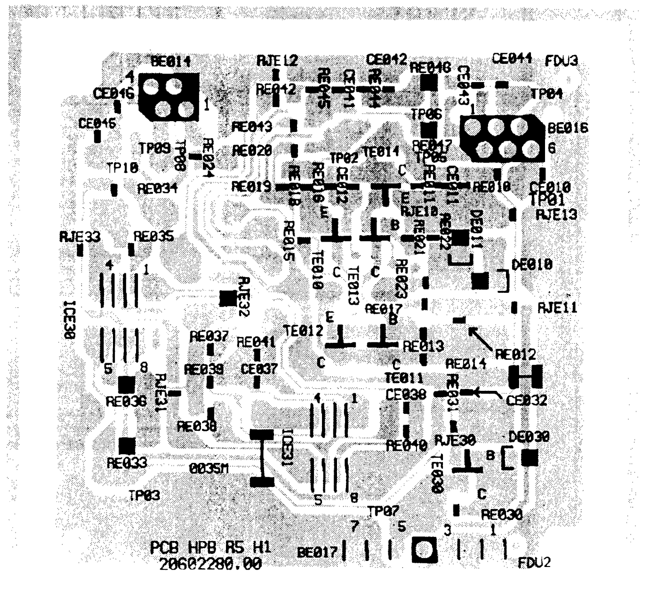




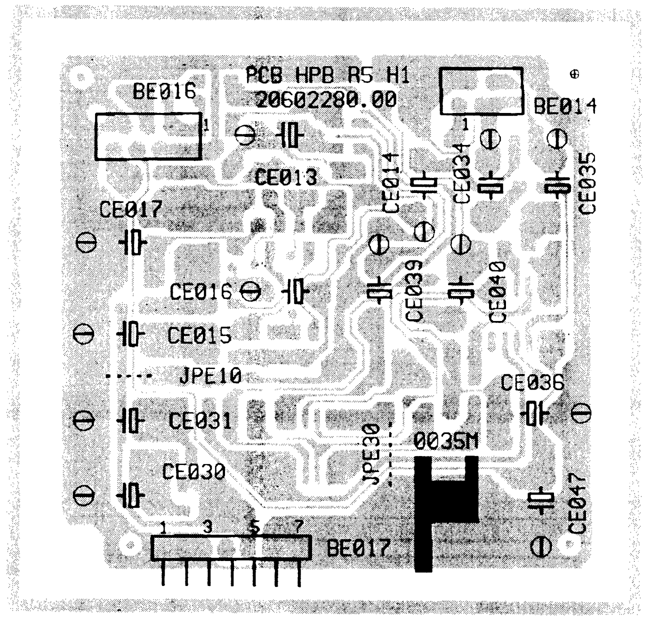




Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


BE014
RJE12
CE042
CE044
FDU3
BE016
TP04
TP06
TP08
TP09
TP10
TP02
TP01
RJE13
RJE33
RE035
ICE30
RJE32
DE010
RJE11
RE012
CE032
DE030
RE033
0035M
ICE31
TP03
TP07
RE030
PCB HPB R5 H1
20602280.00
BE017
FDU2

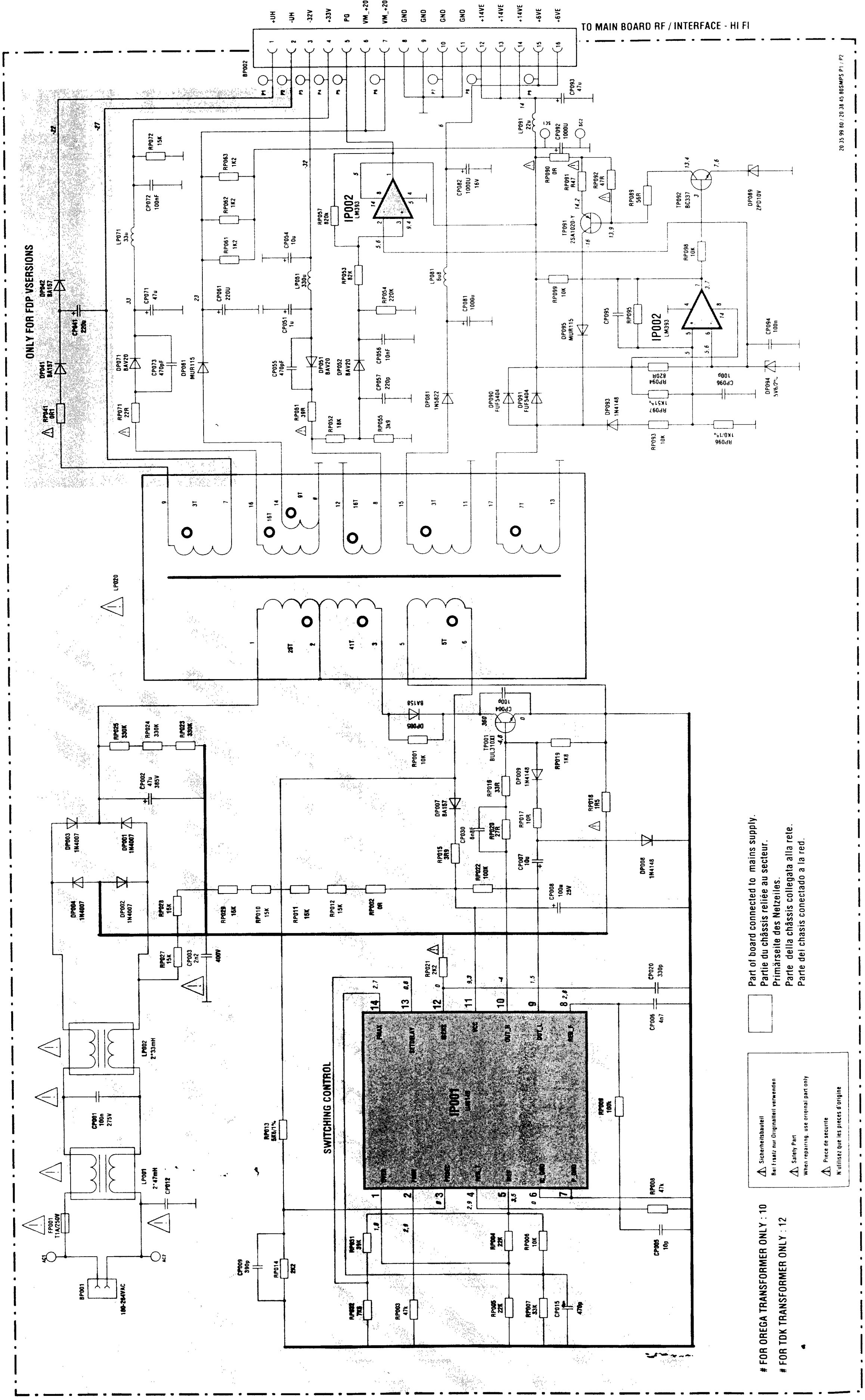
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes


BE016
PCB HPB R5 H1
20602280.00
BE014
CE013
CE014
CE034
CE035
CE017
CE016
CE015
JPE10
CE031
CE030
JPE30
0035M
CE039
CE040
CE036
CE047
1 3 5 7
BE017

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

(VPH6600N-VPH6601-VPH6680-VPH6750-VPH6751-VPH6780-M9560HIFI/SA-M9571HIFI M9680HIFI-T8006HIFI-V3450SV-VR6081-VR6087/F-VR7081-VR8083H-VR8087)


+UH
-UH
-32V
+33V
PG
VM_+20VE
VM_+20VE
GND
GND
GND
GND
+14VE
+14VE
+14VE
+6VE
+6VE
TO MAIN BOARD RF / INTERFACE - HI FI
BP002
20 35 99 80 / 20 38 45 80SMPS P1 / P2
ONLY FOR FDP VSERSIONS
IP002
LM393
IP001
SWITCHING CONTROL
TP001
BUL310XI
TP091
2SA1020-Y
TP092
BC337
DP089
ZPD10V
DP081
MUR115
DP003
1N4007
DP001
1N4007
DP004
1N4007
DP002
1N4007
FP001
T1A/250V
BP001
180-264VAC
LP001
2*47mH
LP002
2*33mH
CP001
100n
275V
CP002
47u
385V
CP003
2n2
400V
LP020
25T
41T
5T
3T
16T
9T
16T
3T
7T
PMAX
SETDELAY
RECOV
VCC
OUT_B
OUT_L
REG_I

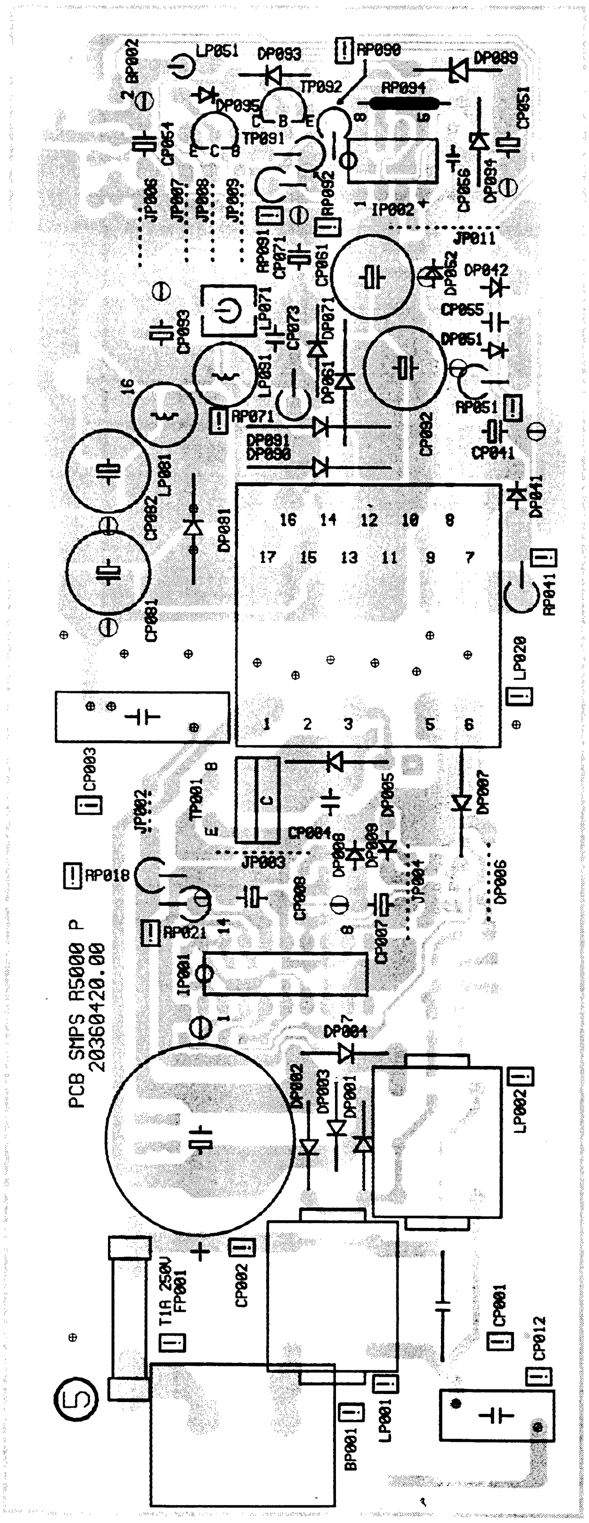
Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteiles.
Parte della châssis collegata alla rete.
Parte del chasis conectado a la red.

⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden
⚠ Safety Part
When repairing, use original part only
⚠ Pièce de securite
N'utilisez que les pieces d'origine

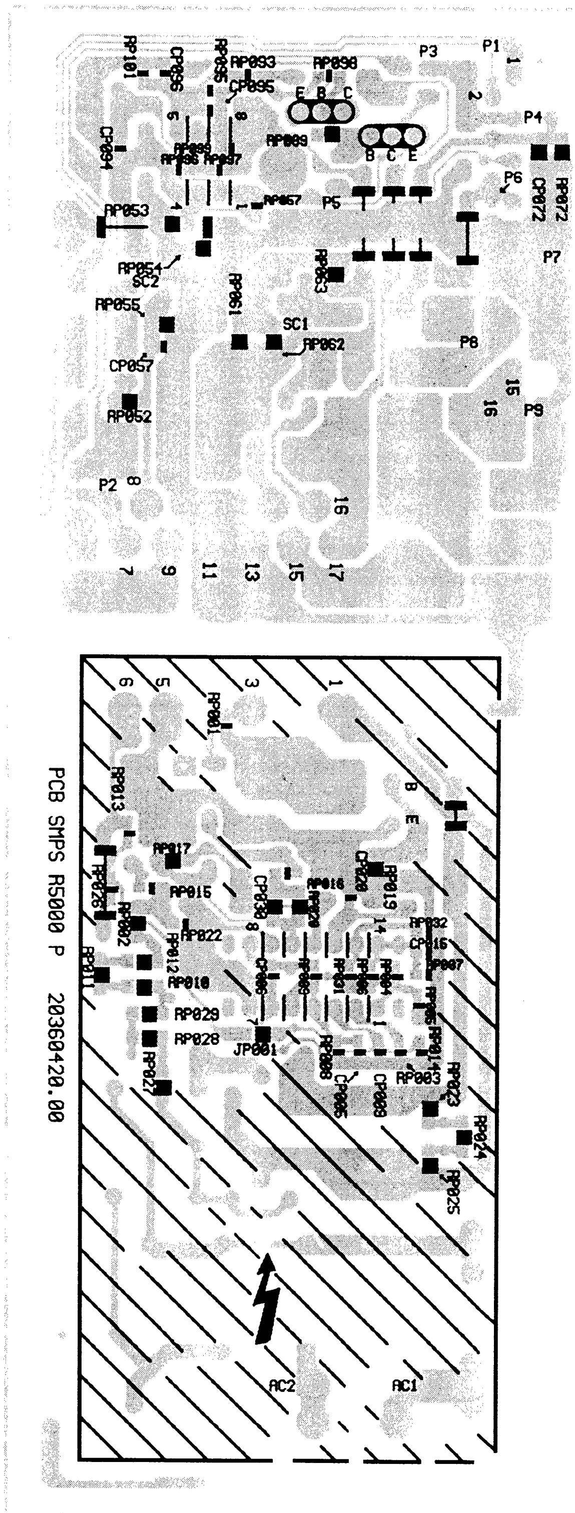
FOR OREGA TRANSFORMER ONLY : 10
FOR TDK TRANSFORMER ONLY : 12

POWER SUPPLY BOARD - PLATINE ALIMENTATION - NETZTEIL LEITERPLATTE - PIASTRA ALIMENTAZIONE - PLATINA ALIMENTACIÓN

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

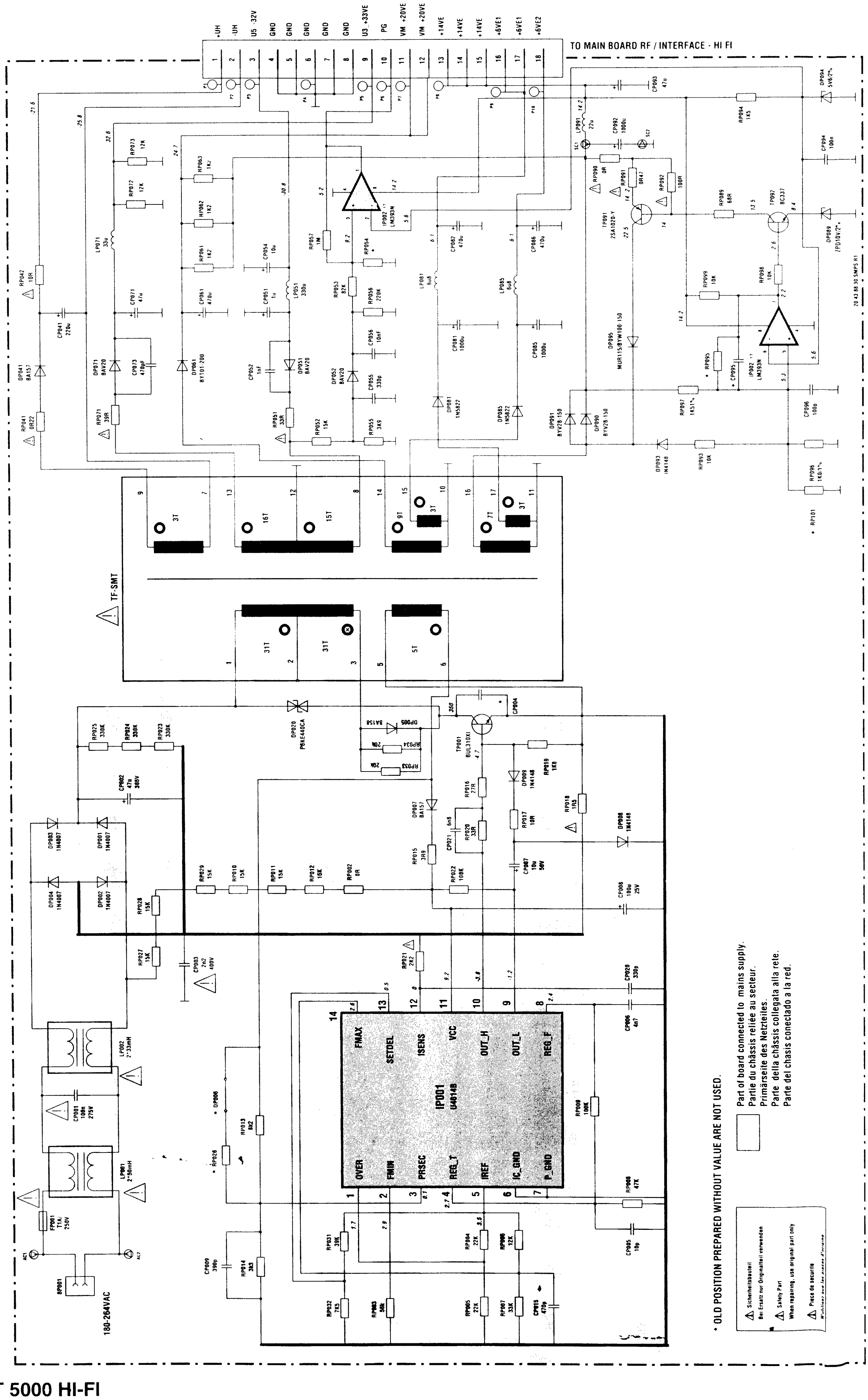

LP051
DP093
RP090
DP089
RP002
DP095
TP092
RP094
CP051
CP054
TP091
IP002
CP056
DP094
JP006
JP007
JP008
JP009
RP091
RP092
JP011
CP071
CP061
DP052
DP042
CP093
LP071
CP073
DP071
CP055
DP051
LP091
DP061
RP051
RP071
CP092
CP041
DP091
DP090
CP082
LP081
DP081
DP041
16 14 12 10 8
17 15 13 11 9 7
RP041
CP081
LP020
1 2 3 5 6
CP003
JP002
TP001
DP005
DP007
CP004
DP008
DP009
JP003
JP004
DP006
RP018
CP008
CP007
RP021
PCB SMPS R5000 P
20360420.00
IP001
DP004
DP002
DP003
DP001
LP002
T1A 250V
FP001
CP002
CP001
CP012
BP001
LP001
⑤

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


RP101
CP096
RP095
RP093
CP095
RP098
P3
P1
P4
CP094
RP096
RP097
RP089
B C E
E B C
P6
CP072
RP072
RP053
RP067
P5
P7
RP054
SC2
RP063
RP061
RP055
SC1
RP062
P8
CP057
RP052
P9
P2
PCB SMPS R5000 P 20360420.00
RP001
RP013
RP017
RP026
RP015
CP030
RP016
RP020
CP020
RP019
RP002
RP022
RP032
CP016
RP007
RP011
RP012
RP010
CP006
RP009
RP031
RP006
RP004
RP005
RP014
RP029
RP028
JP001
RP008
CP005
CP009
RP003
RP023
RP027
RP024
RP025
AC2
AC1

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE -

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA -ESQUEMA
(VPH 6697 SENSAR - VPH 6790)


+UH
UH
U5 -32V
GND
U3 +33VE
PG
VM +20VE
+14VE
+6VE1
+6VE2
TO MAIN BOARD RF / INTERFACE - HI FI
TF-SMT
3T
16T
15T
9T
7T
31T
5T
IP002 LM393N
TP091 2SA1020-Y
TP092 BC337
TP001 BUL310XI
DP020 P6KE440CA
IP001 U4014B
FMAX
SETDEL
ISENS
VCC
OUT_H
OUT_L
REG_F
OVER
FMIN
PRSEC
REG_T
IREF
IC_GND
P_GND
LP001 2*50mH
LP002 2*33mH
CP001 100n 275V
FP001 T1A 250V
BP001
AC1
AC2
180-264VAC
DP001 1N4007
DP002 1N4007
DP003 1N4007
DP004 1N4007
CP002 47u 385V
CP003 2n2 400V

* OLD POSITION PREPARED WITHOUT VALUE ARE NOT USED.

☐ Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteiles.
Parte della châssis collegata alla rete.
Parte del chasis conectado a la red.

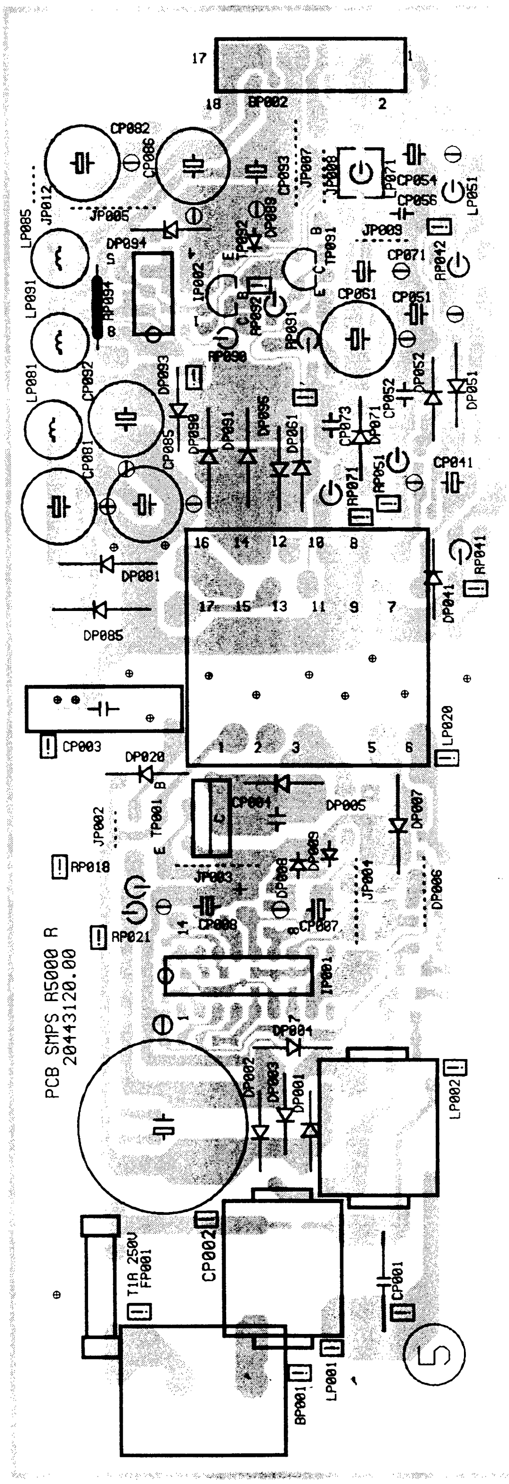
⚠ Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

⚠ Safety Part
When repairing, use original part only

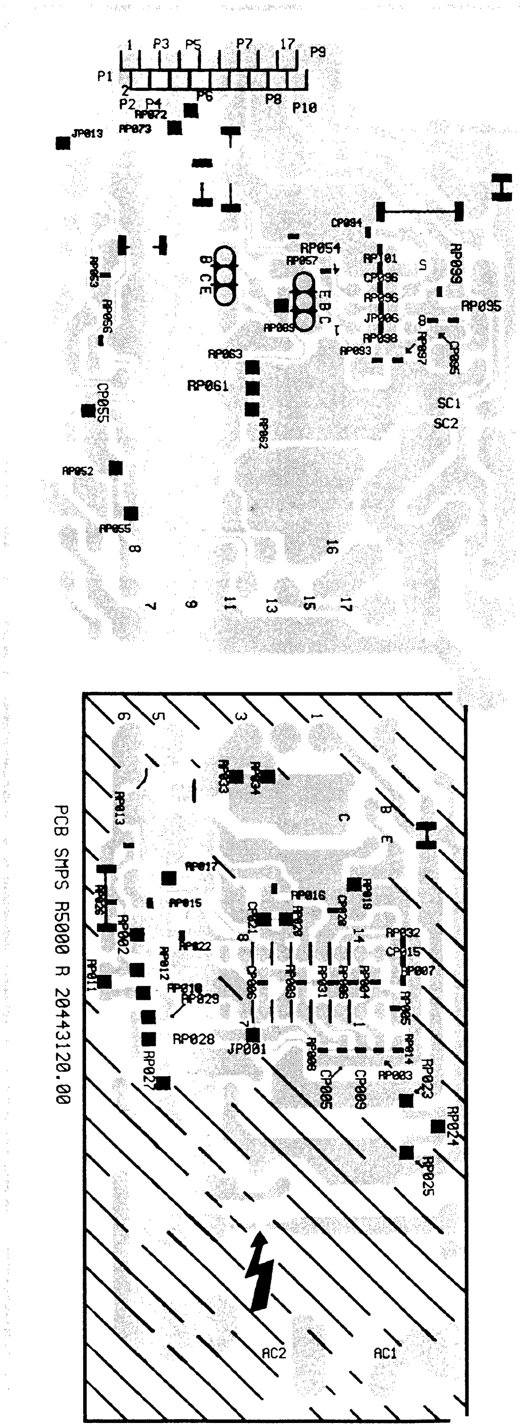
⚠ Piece de securite
N'utilisez que les pieces d'origine

POWER SUPPLY BOARD - PLATINE ALIMENTATION - NETZTEIL LEITERPLATTE - PIASTRA ALIMENTAZIONE - PLATINA ALIMENTACION

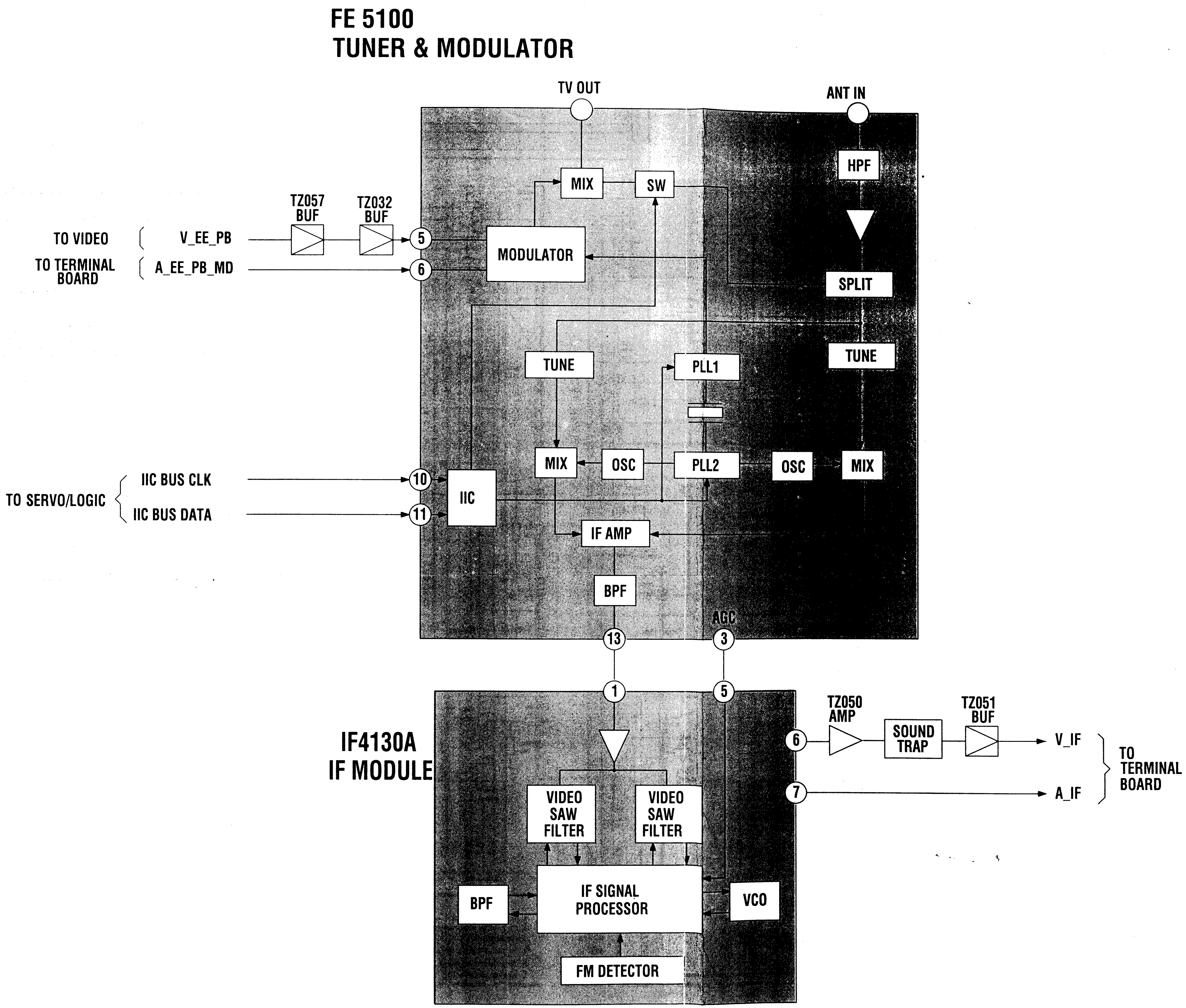
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes


BP002
CP082
CP086
JP012
JP005
LP085
DP094
LP091
RP094
LP081
CP092
CP081
CP085
DP093
DP090
DP091
DP095
DP061
CP073
DP071
RP071
RP051
CP041
CP052
RP052
DP052
DP051
CP061
CP051
RP042
CP071
JP009
TP091
TP092
LP092
RP091
RP090
CP056
CP054
LP051
LP071
JP093
JP007
CP089
DP081
DP085
RP041
DP041
LP020
CP003
DP020
TP001
CP004
DP005
DP007
JP002
RP018
JP003
DP009
DP008
JP004
DP006
CP008
CP007
RP021
IP001
DP004
DP002
DP003
DP001
LP002
PCB SMPS R5000 R
20443120.00
T1A 250V
FP001
CP002
CP001
BP001
LP001

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
RP072
RP073
JP013
CP094
RP054
RP057
RP063
RP061
RP062
CP055
RP052
RP055
RP039
RP095
SC1
SC2
RP013
RP033
RP034
RP017
RP015
RP016
RP019
RP002
RP011
RP012
RP022
RP010
RP029
RP028
JP001
RP027
RP032
CP015
RP007
RP005
RP014
RP003
RP023
RP024
RP025
CP005
CP009
AC1
AC2
PCB SMPS R5000 R 20443120.00

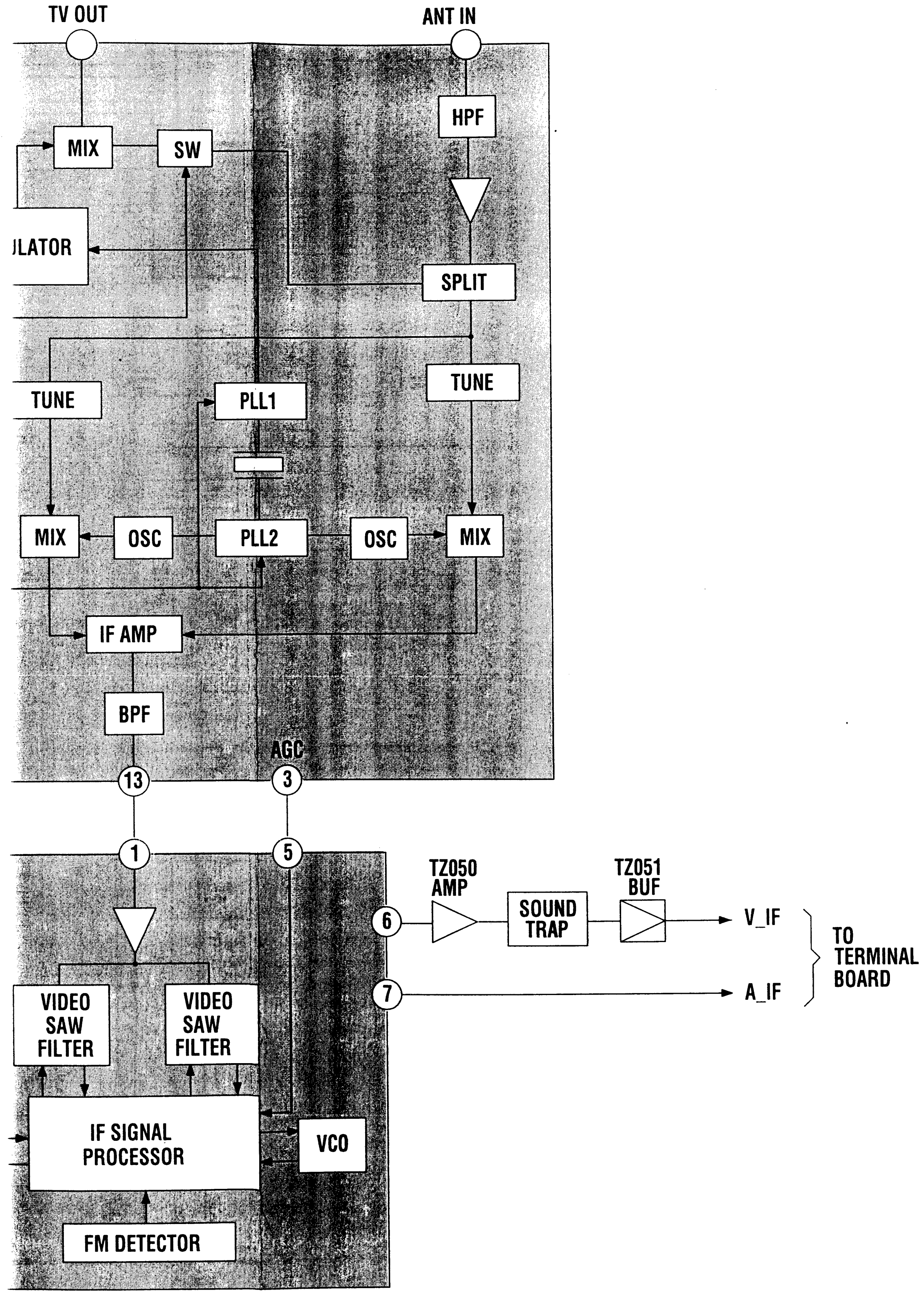
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES


FE 5100
TUNER & MODULATOR
TV OUT
ANT IN
HPF
MIX
SW
TZ057
BUF
TZ032
BUF
TO VIDEO
TO TERMINAL BOARD
V_EE_PB
A_EE_PB_MD
5
6
MODULATOR
SPLIT
TUNE
PLL1
TUNE
MIX
OSC
PLL2
OSC
MIX
TO SERVO/LOGIC
IIC BUS CLK
IIC BUS DATA
10
11
IIC
IF AMP
BPF
AGC
13
3
1
5
IF4130A
IF MODULE
TZ050
AMP
SOUND TRAP
TZ051
BUF
6
7
V_IF
A_IF
TO TERMINAL BOARD
VIDEO SAW FILTER
VIDEO SAW FILTER
BPF
IF SIGNAL PROCESSOR
VCO
FM DETECTOR

. - INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZEIL INTERFACE / AUDIO ELABORAZIONE AUDIO - INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

EMA A BLOCCHI - ESQUEMA DE BLOQUES

TOR

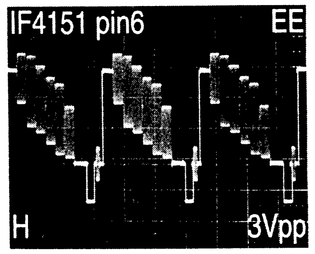

TV OUT
ANT IN
MIX
SW
HPF
ILATOR
SPLIT
TUNE
PLL1
TUNE
MIX
OSC
PLL2
OSC
MIX
IF AMP
BPF
AGC
13
3
1
5
6
7
TZ050
AMP
SOUND
TRAP
TZ051
BUF
V_IF
A_IF
TO
TERMINAL
BOARD
VIDEO
SAW
FILTER
VIDEO
SAW
FILTER
IF SIGNAL
PROCESSOR
VCO
FM DETECTOR

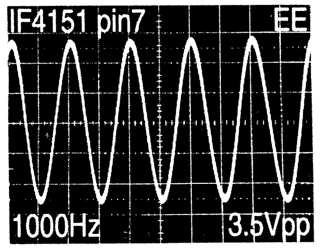
MEASUREMENTS POWER SUPPLY INTERFACE / AUDIO SIGNAL PROCESSING - MESURES INTERFACE / CIRCUITS AUDIO - MESSUNGEN NETZEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - MISURI INTERFACCIA ALIMENTAZIONE / ELABORAZIONE AUDIO - MEDIDAS INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

INTERFACE		MODE		
LOC	PIN	EE	PLAY	REC.
TUNER	1	0	0	0
	2	5.2	5.2	5.2
	3	7.8	7.8	7.8
	4	12.1	12.1	12.1
	5	0	0	0
	6	0	0	0
	7	12.2	12.2	12.2
	8	5.5	5.5	5.5
	9	32	32	32
	10	4.8	4.8	4.8
	11	4.6	4.6	4.6
	12	1	1	1
	13	1.9	1.9	1.9
IF	1	1.9	1.9	1.9
	2	0	0	0
	3	1	1	1
	4	9.7	9.7	9.7
	5	7.9	7.9	7.9
	6	5.3	5.3	5.3
	7	8.5	8.5	8.5
	8	0	0	0
	9	12.2	12.2	12.2
	10	0	0	0
TG029	E	0	0	0
	B	0	0	0
	C	0	10.8	0
TG030	E	0	0	0
	B	0	4.8	0
	C	12.2	0	12.2
TG031	E	12.2	11.7	12.2
	B	12.2	10.9	12.2
	C	0	11.7	0
TN430	E	13.6	13.6	0
	B	13.8	13.8	0
	C	13.9	13.9	13.8
TN439	E	0	0	0
	B	0	0	0.8
	C	13.5	13.5	0

INTERFACE		MODE		
LOC	PIN	EE	PLAY	REC.
TN640	E	4.8	4.8	4.8
	B	5.5	5.5	5.5
	C	12.2	12.2	12.2
TN641	E	2.8	2.8	2.8
	B	3.4	3.4	3.4
	C	5.5	5.5	5.5
TS030	E	0	0	0
	B	0	0	0.2
	C	13.9	13.9	13.4
TS039	E	0	0	7.5
	B	0	0	8.1
	C	13.9	13.9	13.4
TS119	E	0	0	0
	B	0	4.7	0
	C	4	0	4
TW001	E	0	0	0
	B	0.6	0.6	0.6
	C	0	0	0
TW002	E	31.5	31.5	31.5
	B	0	0	0
	C	31.5	31.5	31.5
TW003	E	12.2	12.2	12.2
	B	12.9	12.9	12.9
	C	12.4	12.4	12.4
TW005	E	5.1	5.1	5.1
	B	5.9	5.9	5.9
	C	5.5	5.5	5.5
TW006	E	0	0	0
	B	5.1	5.1	5.1
	C	0	0	0
TW008	E	8.4	8.4	8.4
	B	9	9	9
	C	13.1	13.1	13.1

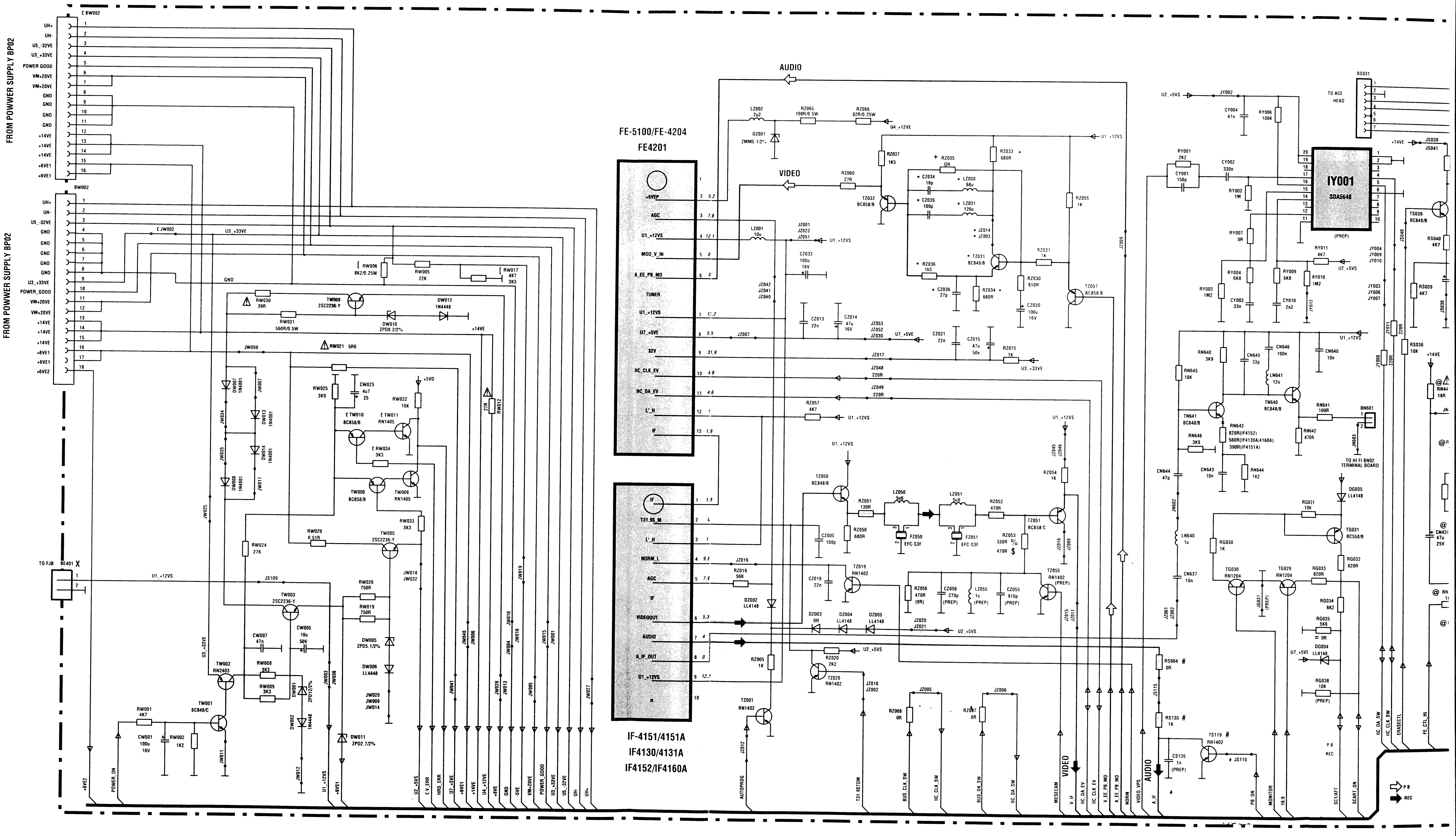
INTERFACE		MODE		
LOC	PIN	EE	PLAY	REC.
TW009	E	0	0	0
	B	0	0	0
	C	5	5	5
TZ001	E	0	0	0
	B	0	0	0
	C	7.5	7.5	7.5
TZ019	E	0	0	0
	B	4.9	4.9	4.9
	C	0	0	0
TZ020	E	0	0	0
	B	0	0	0
	C	4.3	4.3	4.3
TZ050	E	5.2	5.2	5.2
	B	5.9	5.9	5.9
	C	12	12	12
TZ051	E	2.6	2.6	2.6
	B	1.9	1.9	1.9
	C	0	0	0





POWER SUPPLY INTERFACE / AUDIO SIGNAL PROCESSING - INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZTEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - INT
ALIMENTAZIONE / ELABORAZIONE AUDIO - INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

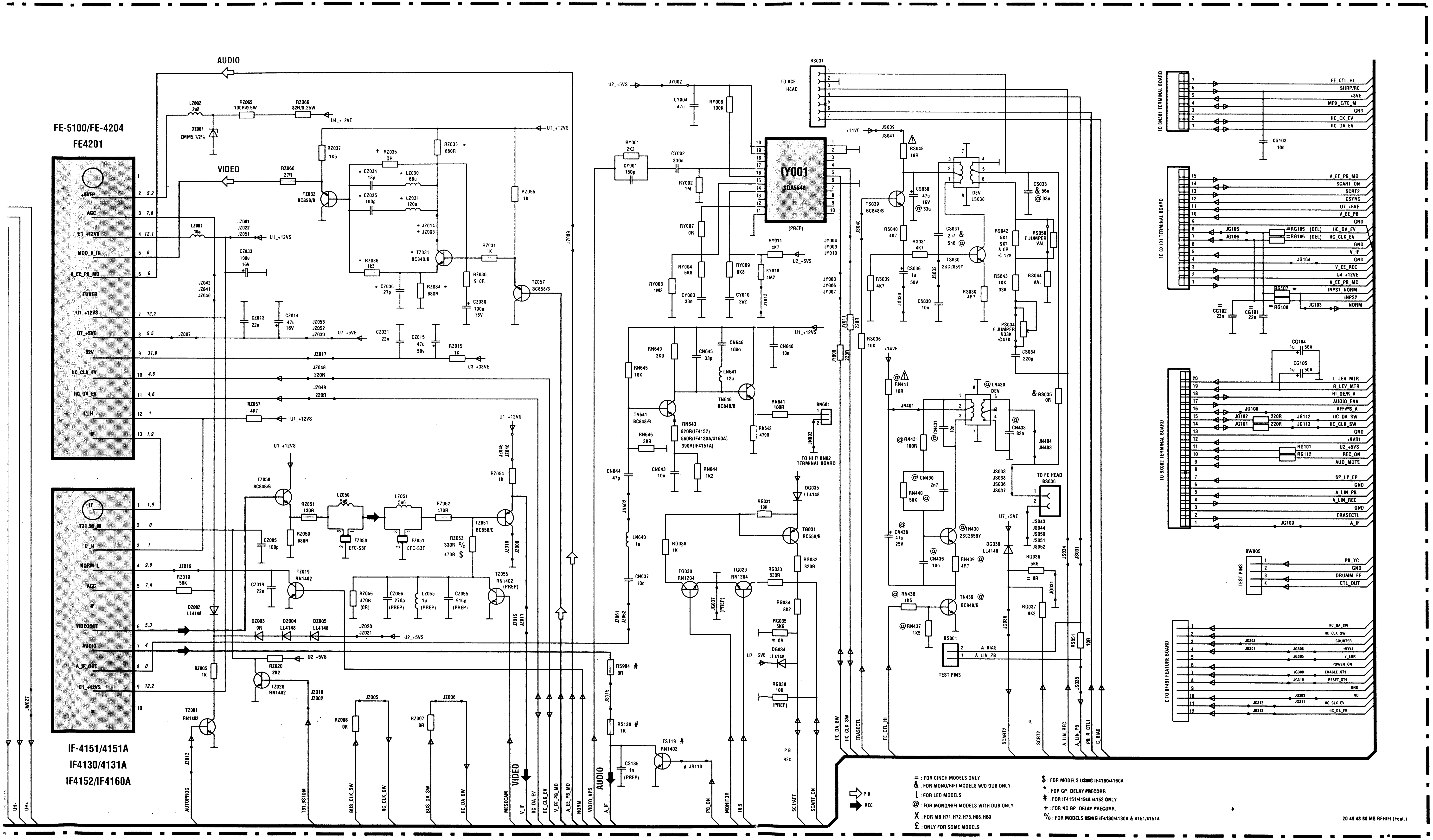
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA **(VPH6600N - VPH6601 - VPH6680 - VPH6697 SENSAR - VPH6750 - VPH 6751 - VPH 6780 - VPH 6790 - M9560HIFI/SA M9571HIFI - M9680HIFI - T8006HIFI - VR6087/F - VR7081 - VR 8083SH - VR8087)**



FROM POWWER SUPPLY BP02
BW002
BW002
UH+
UH-
U5_-32VE
U3_+33VE
POWER GOOD
VM+20VE
GND
+14VE
+6VE1
+6VE2
POWER_GOOD
AUDIO
VIDEO
FE-5100/FE-4204
FE4201
+5VEP
AGC
U1_+12VS
MOD_V_IN
A_EE_PB_MD
TUNER
U7_+5VE
32V
IIC_CLK_EV
IIC_DA_EV
L'_H
IF
T31_9S_M
NORM_L
VIDEOOUT
A_IF_OUT
IF-4151/4151A
IF4130/4131A
IF4152/IF4160A
IY001
SDA5648
(PREP)
BS031
TO ACE HEAD
TO HI FI BN02 TERMINAL BOARD
BN601
TO FJB
BE401
U4_+12VE
U2_+5VS
U3_+33VE
FZ050 EFC-S3F
FZ051 EFC-S3F
POWER_ON
AUTOPROG
T31 9STDM
BUS_CLK_SW
IIC_CLK_SW
BUS_DA_SW
IIC_DA_SW
MESECAM
V_IF
IIC_DA_EV
IIC_CLK_EV
V_EE_PB_MD
A_EE_PB_MD
NORM
VIDEO_VPS
A_IF
PB ON
MONITOR
16:9
SCT/AFT
SCART_ON
ERASECTL
FE_CTL_HI
PB
REC

RFACE ALIMENTATION / CIRCUITS AUDIO - NETZEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - INTERFACCIA
IÓN / TRATAMIENTO AUDIO

UEMA (VPH6600N - VPH6601 - VPH6680 - VPH6697 SENSAR - VPH6750 - VPH 6751 - VPH 6780 - VPH 6790 - M9560HIFI/SA -

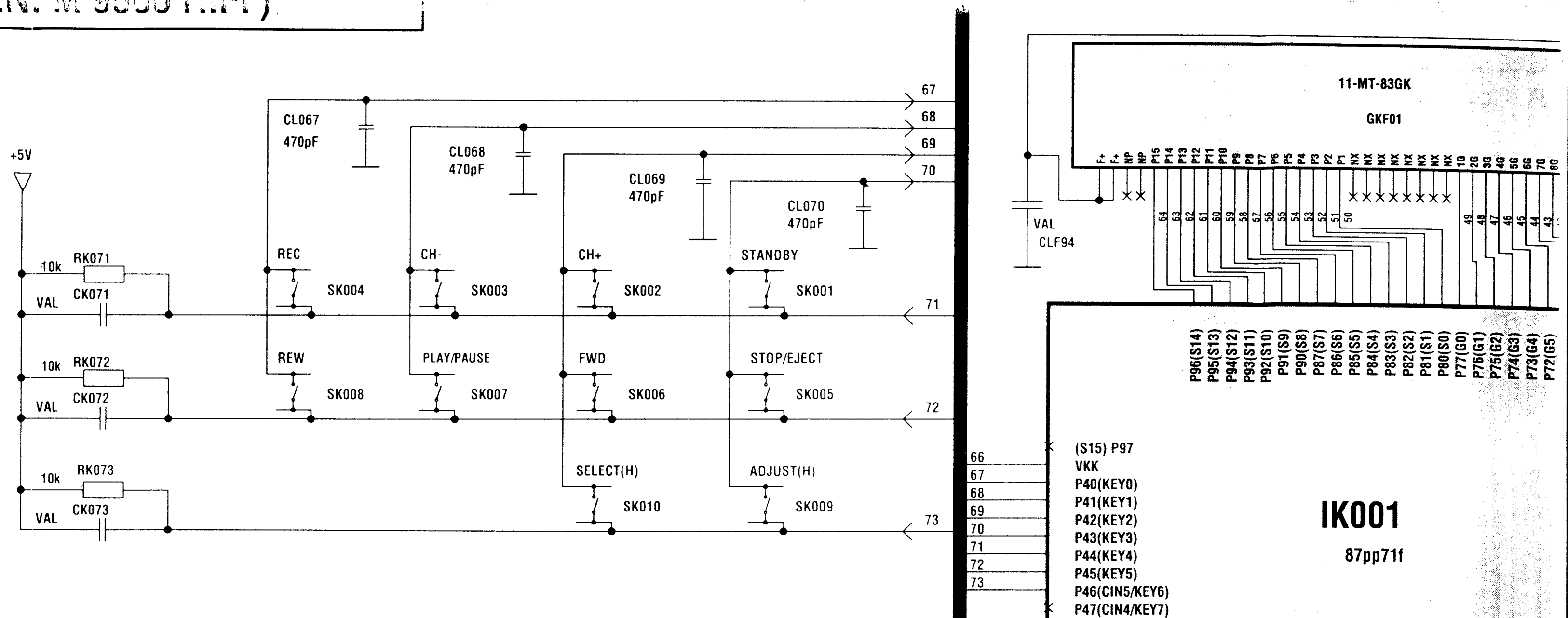

AUDIO
VIDEO
FE-5100/FE-4204
FE4201
IF-4151/4151A
IF4130/4131A
IF4152/IF4160A
IY001
SDA5648
(PREP)
TO ACE HEAD
BS031
TO HI FI BN02 TERMINAL BOARD
TO FE HEAD BS030
TEST PINS
BS001
BW005
TO BN301 TERMINAL BOARD
TO BX101 TERMINAL BOARD
TO BX002 TERMINAL BOARD
C TO BF401 FEATURE BOARD
+5VEP
AGC
U1_+12VS
MOD_V_IN
A_EE_PB_MD
TUNER
U7_+5VE
32V
IIC_CLK_EV
IIC_DA_EV
L'_H
IF
T31.9S_M
NORM_L
VIDEOOUT
A_IF_OUT
FE_CTL_HI
SHRP/RC
+8VE
MPX_E/FE_M
GND
V_EE_PB_MD
SCART_ON
SCRT2
CSYNC
V_IF
V_EE_REC
U4_+12VE
INPS1_NORM
INPS2
L_LEV_MTR
R_LEV_MTR
HI_DE/R_A
AUDIO_ENV
AFF/PB_A
IIC_DA_SW
IIC_CLK_SW
+9VS1
U2_+5VS
REC_ON
AUD_MUTE
SP_LP_EP
A_LIN_PB
A_LIN_REC
ERASECTL
A_IF
PB_YC
DRUMM_FF
CTL_OUT
COUNTER
POWER_ON
ENABLE_ST8
RESET_ST8
A_BIAS
UH-
UH+
AUTOPROG
T31.9STDM
BUS_CLK_SW
BUS_DA_SW
MESECAM
V_IF
NORM
VIDEO_VPS
PB_ON
MONITOR
16:9
SC1AFT
ERASECTL
SCART2
SCRT2
PB_R_CTL1
C_BIAS
PB
REC

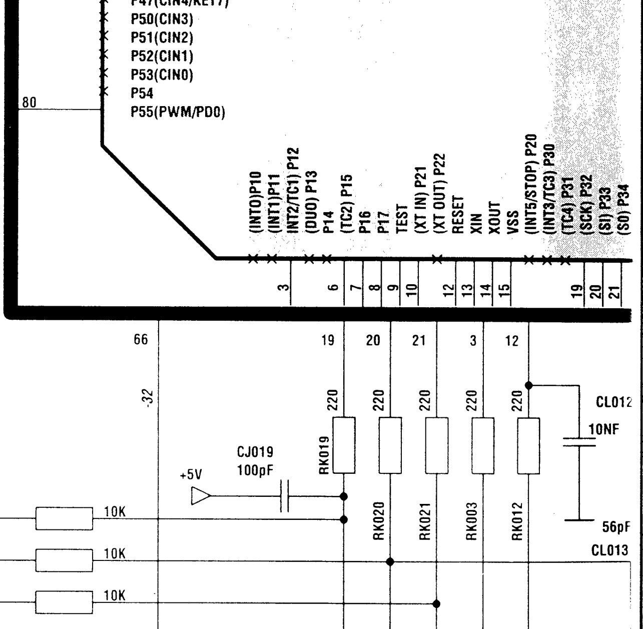
= : FOR CINCH MODELS ONLY
& : FOR MONO/HIFI MODELS W/O DUB ONLY
[: FOR LED MODELS
@ : FOR MONO/HIFI MODELS WITH DUB ONLY
X : FOR MB H71,H72,H73,H66,H60
£ : ONLY FOR SOME MODELS

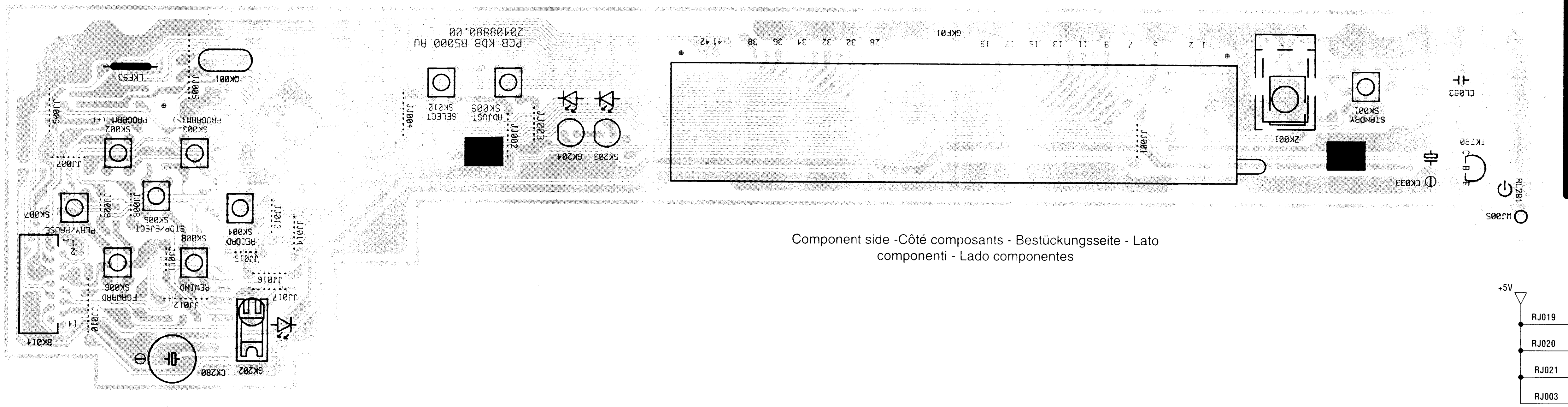
$: FOR MODELS USING IF4160/4160A
* : FOR GP. DELAY PRECORR.
# : FOR IF4151/4151A /4152 ONLY
+ : FOR NO GP. DELAY PRECORR.
% : FOR MODELS USING IF4130/4130A & 4151/4151A

20 49 48 80 MB RFHIFI (Feat.)

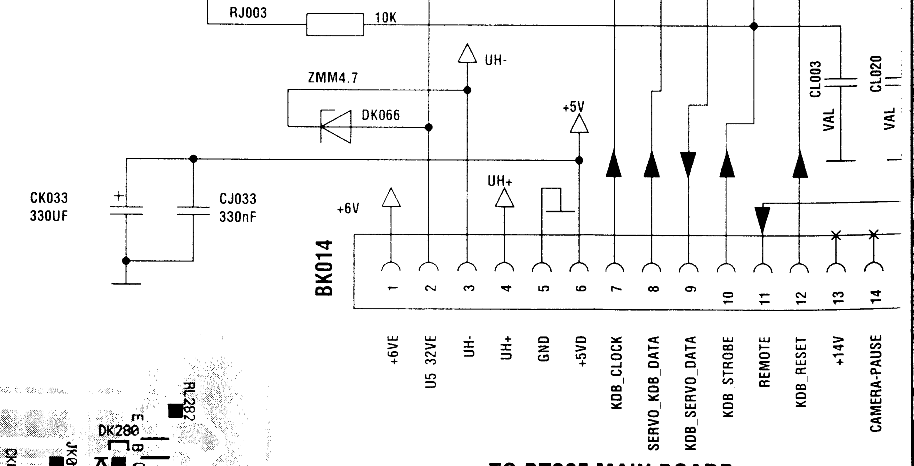
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: M 9560 HIFI)

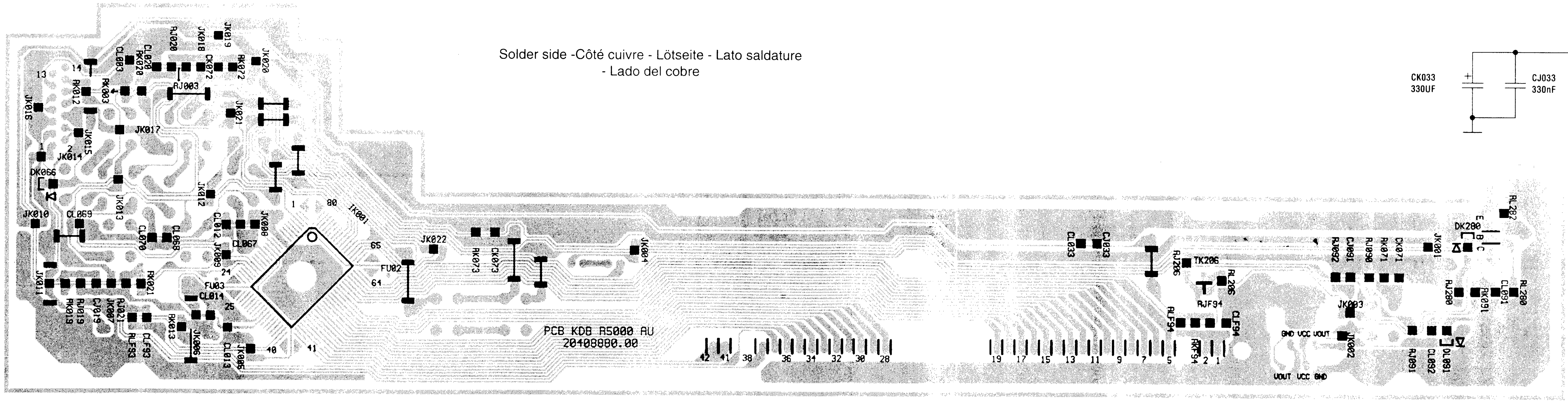

+5V
10k RK071
VAL CK071
10k RK072
VAL CK072
10k RK073
VAL CK073
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
REC SK004
CH- SK003
CH+ SK002
STANDBY SK001
REW SK008
PLAY/PAUSE SK007
FWD SK006
STOP/EJECT SK005
SELECT(H) SK010
ADJUST(H) SK009
67
68
69
70
71
72
73
11-MT-83GK
GKF01
VAL CLF94
IK001
87pp71f
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PD0)


(INT0)P10
(INT1)P11
(INT2/TC1) P12
(DUO) P13
P14
(TC2) P15
P16
P17
TEST
(XT IN) P21
(XT OUT) P22
RESET
XIN
XOUT
VSS
(INT5/STOP) P20
(INT3/TC3) P30
(TC4) P31
(SCK) P32
(SI) P33
(SO) P34
66
19
20
21
3
12
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CL012 10NF
CJ019 100pF
+5V
56pF CL013


PCB KDB R5000 AU
20408880.00
GKF01
CK001
LKF93
PROGRAM (+) SK002
PROGRAM (-) SK003
PLAY/PAUSE SK007
STOP/EJECT SK005
RECORD SK004
FORWARD SK006
REWIND SK008
SELECT SK010
ADJUST SK009
STANDBY SK001
GK203
GK204
GK202
CK280
BK014
ZK001
CL033
TK280
RJ281
CK033
MJ005

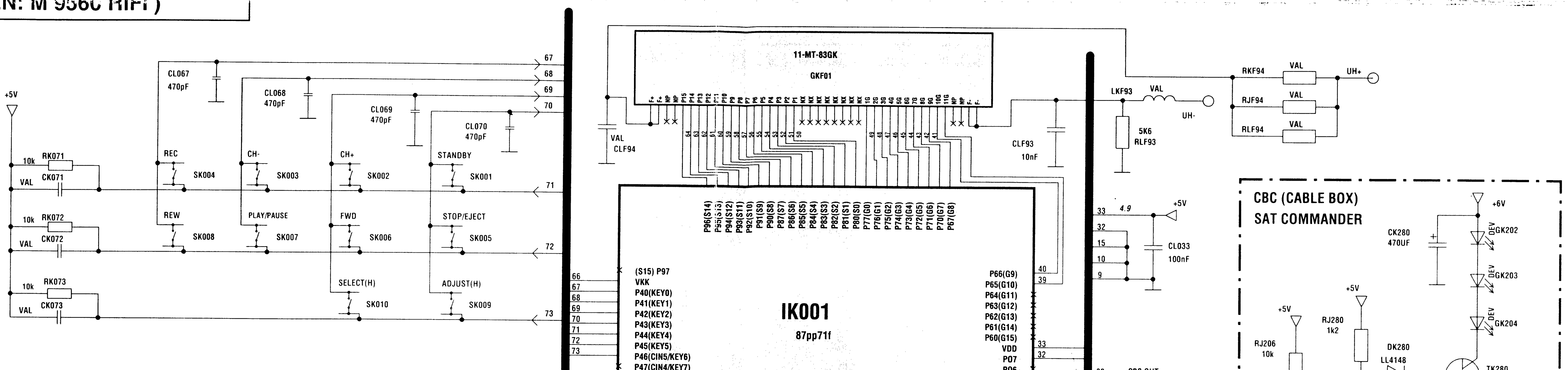
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes


RJ019 10K
RJ020 10K
RJ021 10K
RJ003 10K
UH-
ZMM4.7
DK066
+5V
UH+
CK033 330UF
CJ033 330nF
+6V
CL003 VAL
CL020 VAL
BK014
1 2 3 4 5 6 7 8 9 10 11 12 13 14
+6VE
U5 32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD

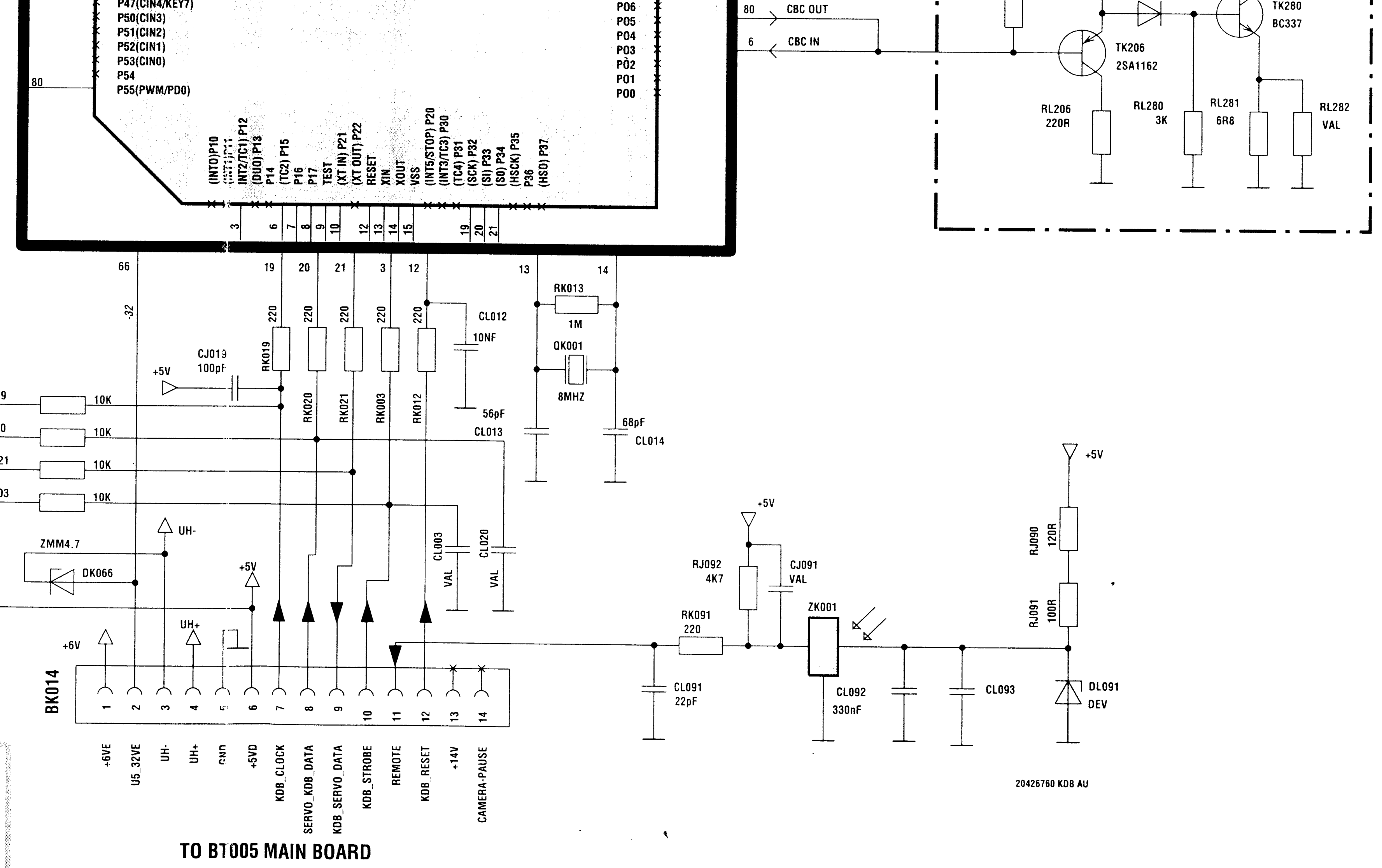

PCB KDB R5000 AU
20408880.00
IK001
JK022
JK004
TK206
JK003
JK002
DK280
DK066
JK010
CL069
CL070
CL068
CL067
FU02
FU03
CL014
CL033
CJ033
RJF94
CLF94

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

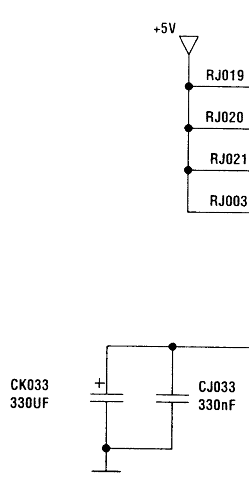
FFICHEUR - BEDIENTEIL MIT DISPLAY - CR (TELEFUNKEN: M 9560 HIFI)



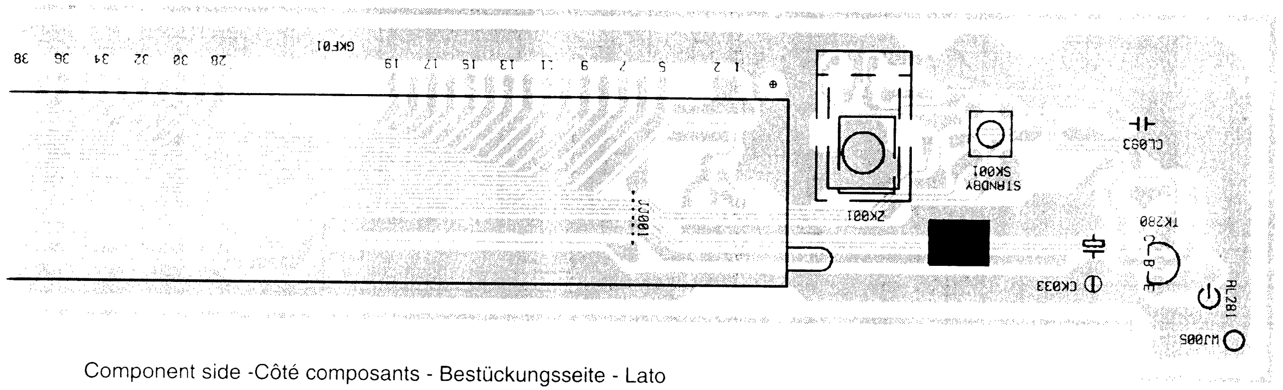
11-MT-83GK
GKF01
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
REC SK004
CH- SK003
CH+ SK002
STANDBY SK001
REW SK008
PLAY/PAUSE SK007
FWD SK006
STOP/EJECT SK005
SELECT(H) SK010
ADJUST(H) SK009
67 68 69 70 71 72 73
VAL CLF94
LKF93 VAL UH-
5K6 RLF93
CLF93 10nF
RKF94 VAL UH+
RJF94 VAL
RLF94 VAL
IK001
87pp71f
CL033 100nF
CBC (CABLE BOX)
SAT COMMANDER
+6V
CK280 470UF
GK202 GK203 GK204 DEV
RJ280 1k2
RJ206 10k
DK280 LL4148
TK280 BC337



(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PD0)
P66(G9) P65(G10) P64(G11) P63(G12) P62(G13) P61(G14) P60(G15)
VDD P07 P06 P05 P04 P03 P02 P01 P00
CBC OUT
CBC IN
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
RK013 1M
QK001 8MHZ
68pF CL014
CL012 10NF
56pF CL013
CJ019 100pF
RK019 RK020 RK021 RK003 RK012 220
RJ019 RJ020 RJ021 RJ003 10K
ZMM4.7 DK066
CL003 VAL
CL020 VAL
RJ092 4K7
CJ091 VAL
RK091 220
ZK001
CL091 22pF
CL092 330nF
CL093
RJ090 120R
RJ091 100R
DL091 DEV
BK014
+6VE U5_32VE UH- UH+ GND +5VD KDB_CLOCK SERVO_KDB_DATA KDB_SERVO_DATA KDB_STROBE REMOTE KDB_RESET +14V CAMERA-PAUSE
TO BT005 MAIN BOARD
20426760 KDB AU

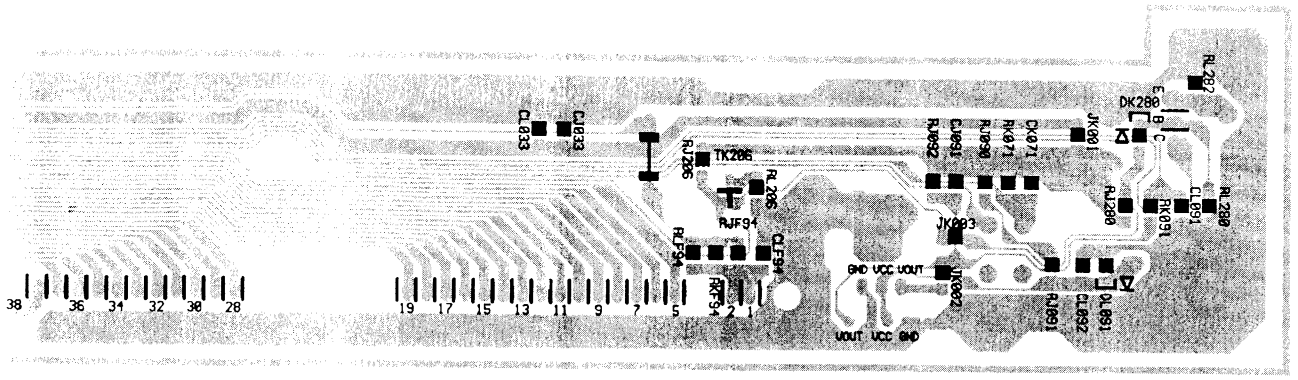


+5V
CK033 330UF
CJ033 330nF
+6V



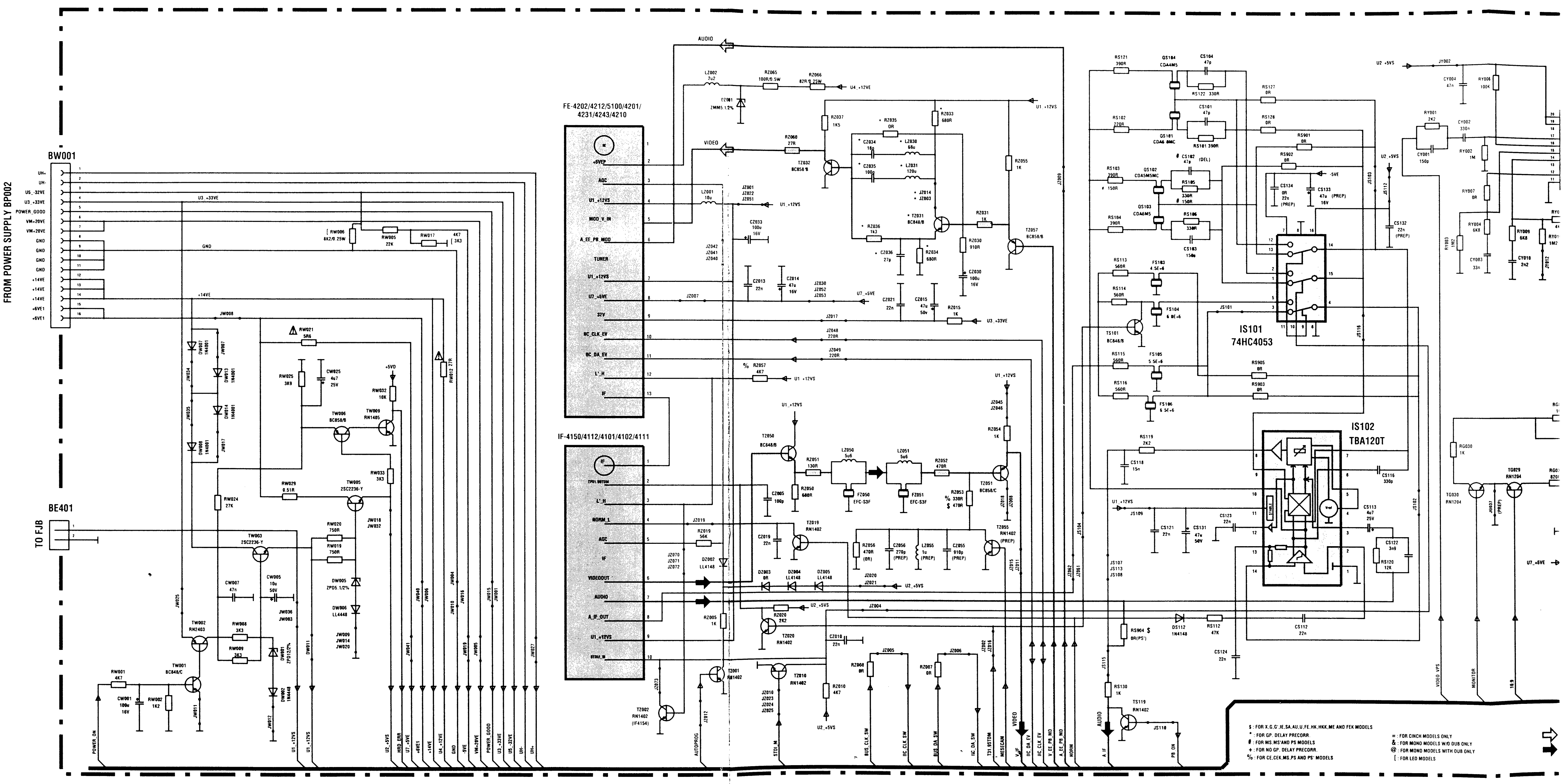
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

) saldature



POWER SUPPLY INTERFACE / AUDIO SIGNAL PROCESSING - INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZEIL INTERFACE / AUDIO SIGNALVERARBEITUNG ALIMENTAZIONE / ELABORAZIONE AUDIO - INTERFAZ ALIMENTACIÓN / TRATAMIENTO AUDIO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA **(V3450SV - VR6081)**

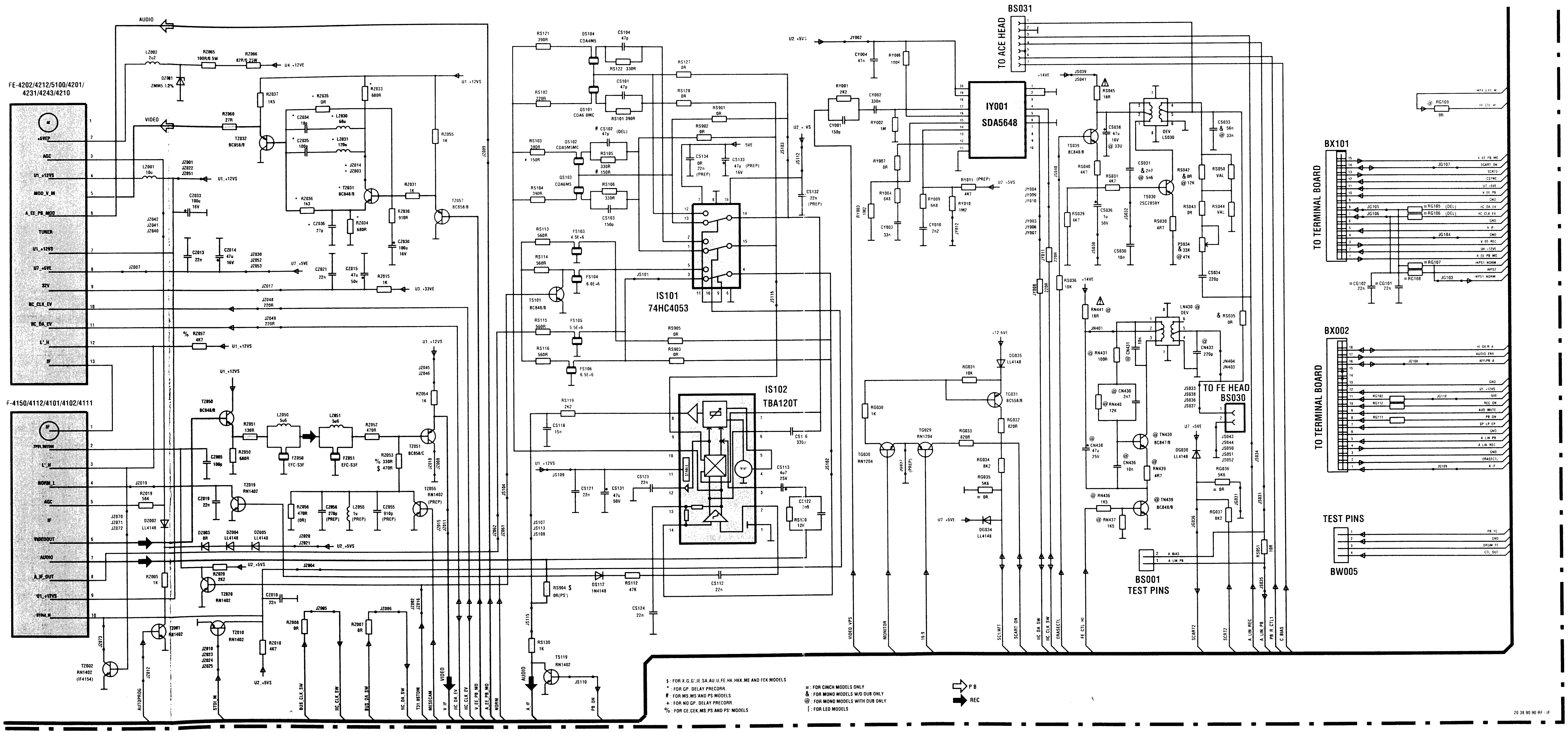

BW001
FROM POWER SUPPLY BP002
BE401
TO FJB
FE-4202/4212/5100/4201/4231/4243/4210
IF-4150/4112/4101/4102/4111
AUDIO
VIDEO
IS101
74HC4053
IS102
TBA120T
VIDEO VPS
MONITOR
16:9
POWER_ON
POWER_GOOD
AUTOPROG
STDI_M
BUS_CLK_SW
IIC_CLK_SW
BUS_DA_SW
IIC_DA_SW
T31_BSTDM
MESECAM
V_IF
IIC_DA_EV
IIC_CLK_EV
V_EE_PB_MOD
A_EE_PB_MOD
NORM
A_IF
PB_ON

$: FOR X,G,G',IE,SA,AU,U,FE,HK,HKK,ME AND FEK MODELS
* : FOR GP. DELAY PRECORR.
# : FOR MS,MS'AND PS MODELS
+ : FOR NO GP. DELAY PRECORR.
% : FOR CE,CEK,MS,PS AND PS' MODELS

= : FOR CINCH MODELS ONLY
& : FOR MONO MODELS W/O DUB ONLY
@ : FOR MONO MODELS WITH DUB ONLY
[: FOR LED MODELS

- INTERFACE ALIMENTATION / CIRCUITS AUDIO - NETZEIL INTERFACE / AUDIO SIGNALVERARBEITUNG - INTERFACCIA IENTACIÓN / TRATAMIENTO AUDIO

/IA - ESQUEMA **(V3450SV - VR6081)**

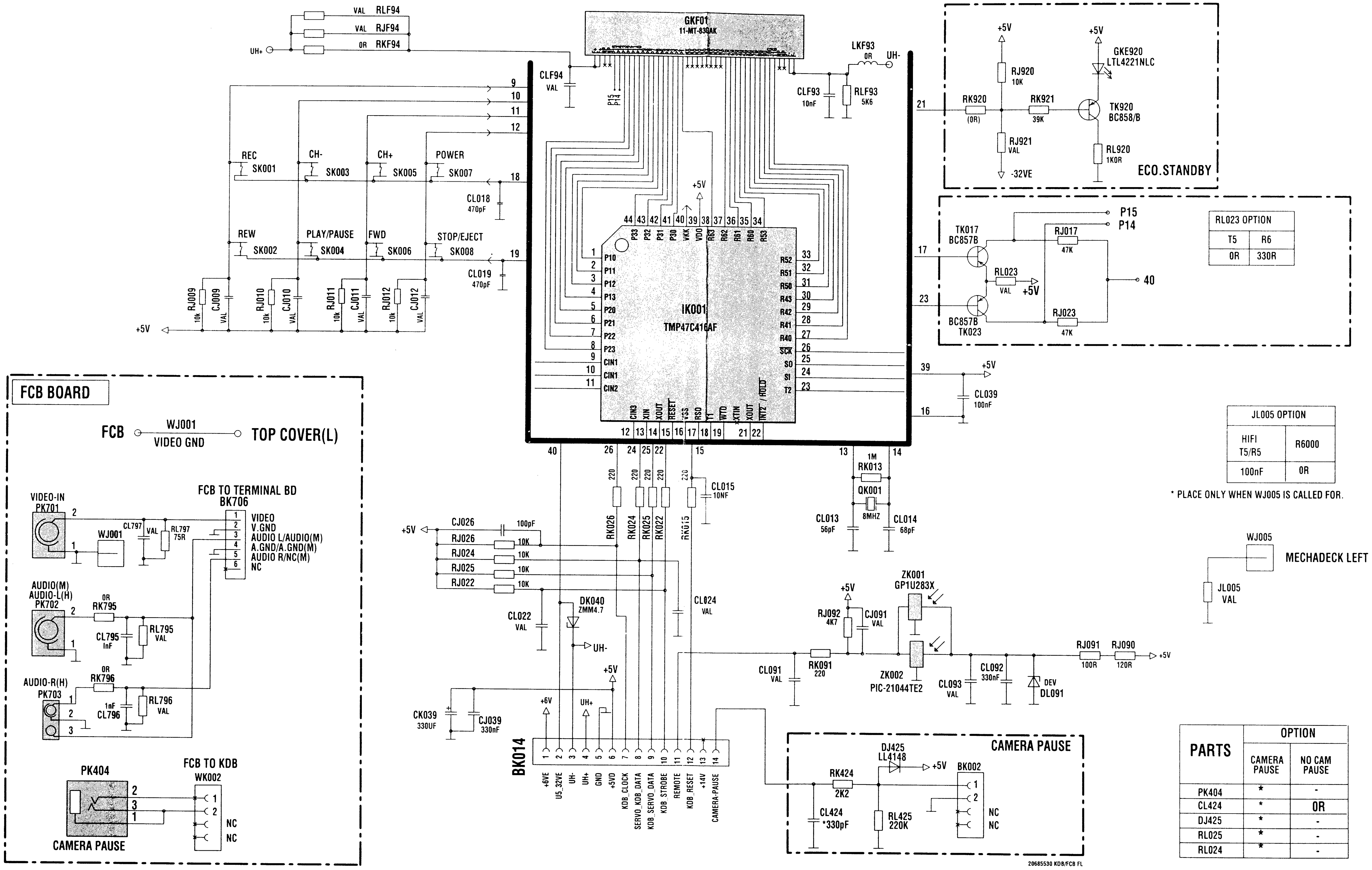

FE-4202/4212/5100/4201/4231/4243/4210
F-4150/4112/4101/4102/4111
AUDIO
VIDEO
IS101
74HC4053
IS102
TBA120T
IY001
SDA5648
BS031
TO ACE HEAD
BX101
TO TERMINAL BOARD
BX002
TO TERMINAL BOARD
TO FE HEAD
BS030
TEST PINS
BW005
BS001
TEST PINS
AUTOPROG
STDI_M
BUS_CLK_SW
IIC_CLK_SW
BUS_DA_SW
IIC_DA_SW
T31_B5TDM
MESECAM
VIDEO
V_IF
IIC_DA_EV
IIC_CLK_EV
V_EE_PB_MO
A_EE_PB_MO
NORM
A_IF
AUDIO
PB_ON
VIDEO_VPS
MONITOR
16:9
SC1/AFT
SCART_ON
IIC_DA_SW
IIC_CLK_SW
ERASECTL
FE_CTL_HI
SCART2
SCRT2
A_LIN_REC
A_LIN_PB
PB_R_CTL
C_BIAS
P B
REC
20 38 90 90 RF IF

$: FOR X,G,G',IE,SA,AU,U,FE,HK,HKK,ME AND FEK MODELS
* : FOR GP. DELAY PRECORR.
# : FOR MS,MS'AND PS MODELS
+ : FOR NO GP. DELAY PRECORR.
% : FOR CE,CEK,MS,PS AND PS' MODELS

= : FOR CINCH MODELS ONLY
& : FOR MONO MODELS W/O DUB ONLY
@ : FOR MONO MODELS WITH DUB ONLY
[: FOR LED MODELS

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6750)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


GKF01
11-MT-83GAK
RLF94 VAL
RJF94 VAL
RKF94 0R
UH+
UH-
LKF93 0R
CLF94 VAL
CLF93 10nF
RLF93 5K6
P15
P14
REC SK001
CH- SK003
CH+ SK005
POWER SK007
REW SK002
PLAY/PAUSE SK004
FWD SK006
STOP/EJECT SK008
CL018 470pF
CL019 470pF
RJ009 10k
CJ009 VAL
RJ010 10k
CJ010 VAL
RJ011 10k
CJ011 VAL
RJ012 10k
CJ012 VAL
+5V
IK001
TMP47C416AF
P10 P11 P12 P13 P20 P21 P22 P23 CIN1 CIN1 CIN2
P33 P32 P31 P30 VKK VDD R63 R62 R61 R60 R53
R52 R51 R50 R43 R42 R41 R40 SCK SO SI T2
CIN3 XIN XOUT RESET VSS RSO T1 WTO XTIN XOUT INT2 / HOLD
RK920 (0R)
RK921 39K
RJ920 10K
RJ921 VAL
-32VE
GKE920 LTL4221NLC
TK920 BC858/B
RL920 1K0R
ECO.STANDBY
TK017 BC857B
TK023 BC857B
RJ017 47K
RL023 VAL
RJ023 47K
CL039 100nF
RK013 1M
QK001 8MHZ
CL013 56pF
CL014 68pF
FCB BOARD
FCB
WJ001 VIDEO GND
TOP COVER(L)
FCB TO TERMINAL BD BK706
VIDEO V.GND AUDIO L/AUDIO(M) A.GND/A.GND(M) AUDIO R/NC(M) NC
VIDEO-IN PK701
CL797 VAL
RL797 75R
AUDIO(M) AUDIO-L(H) PK702
RK795 0R
CL795 1nF
RL795 VAL
AUDIO-R(H) PK703
RK796 0R
CL796 1nF
RL796 VAL
PK404
CAMERA PAUSE
FCB TO KDB WK002
NC
CJ026 100pF
RJ026 10K
RJ024 10K
RJ025 10K
RJ022 10K
RK026 RK024 RK025 RK022 RK015
CL015 10NF
CL022 VAL
DK040 ZMM4.7
CL024 VAL
CK039 330UF
CJ039 330nF
+6V
BK014
+6VE U5_32VE UH- UH+ GND +5VD KDB_CLOCK SERVO_KDB_DATA KDB_SERVO_DATA KDB_STROBE REMOTE KDB_RESET +14V CAMERA-PAUSE
ZK001 GP1U283X
RJ092 4K7
CJ091 VAL
CL091 VAL
RK091 220
ZK002 PIC-21044TE2
CL093 VAL
CL092 330nF
DEV DL091
RJ091 100R
RJ090 120R
DJ425 LL4148
RK424 2K2
CL424 *330pF
RL425 220K
BK002
WJ005
MECHADECK LEFT
JL005 VAL
20685530 KDB/FCB FL

RL023 OPTION	
T5	R6
0R	330R

JL005 OPTION	
HIFI T5/R5	R6000
100nF	0R

* PLACE ONLY WHEN WJ005 IS CALLED FOR.

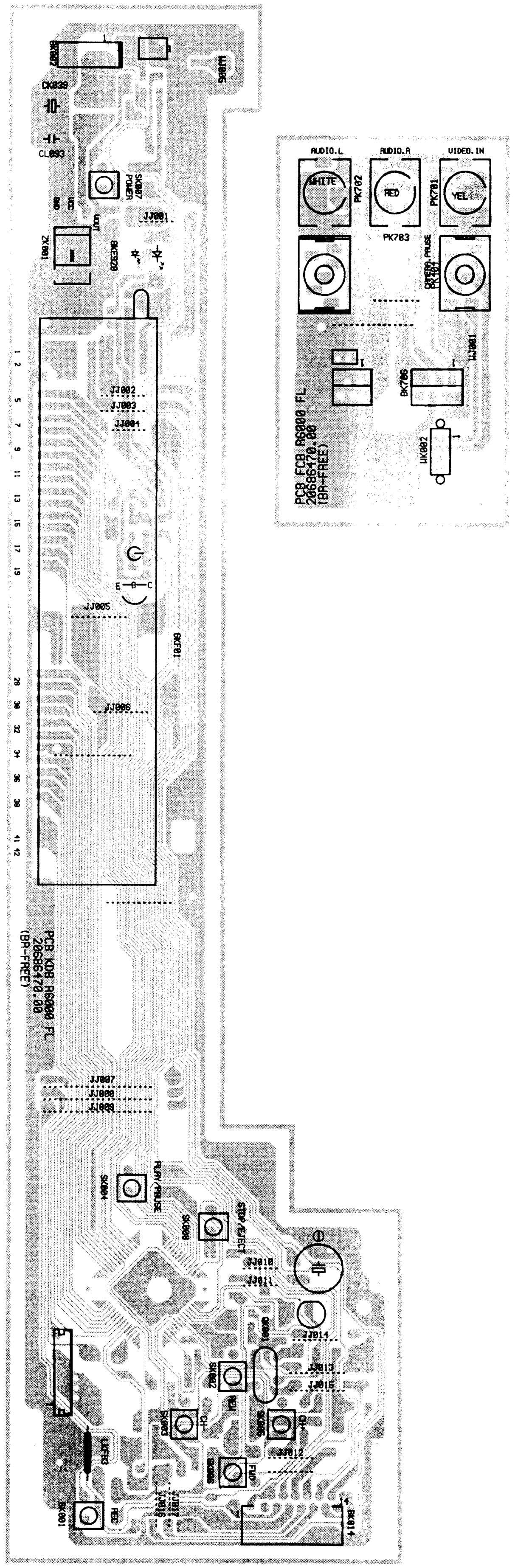
PARTS	OPTION	
	CAMERA PAUSE	NO CAM PAUSE
PK404	*	-
CL424	*	OR
DJ425	*	-
RL025	*	-
RL024	*	-

-: DELETE *: INSERT

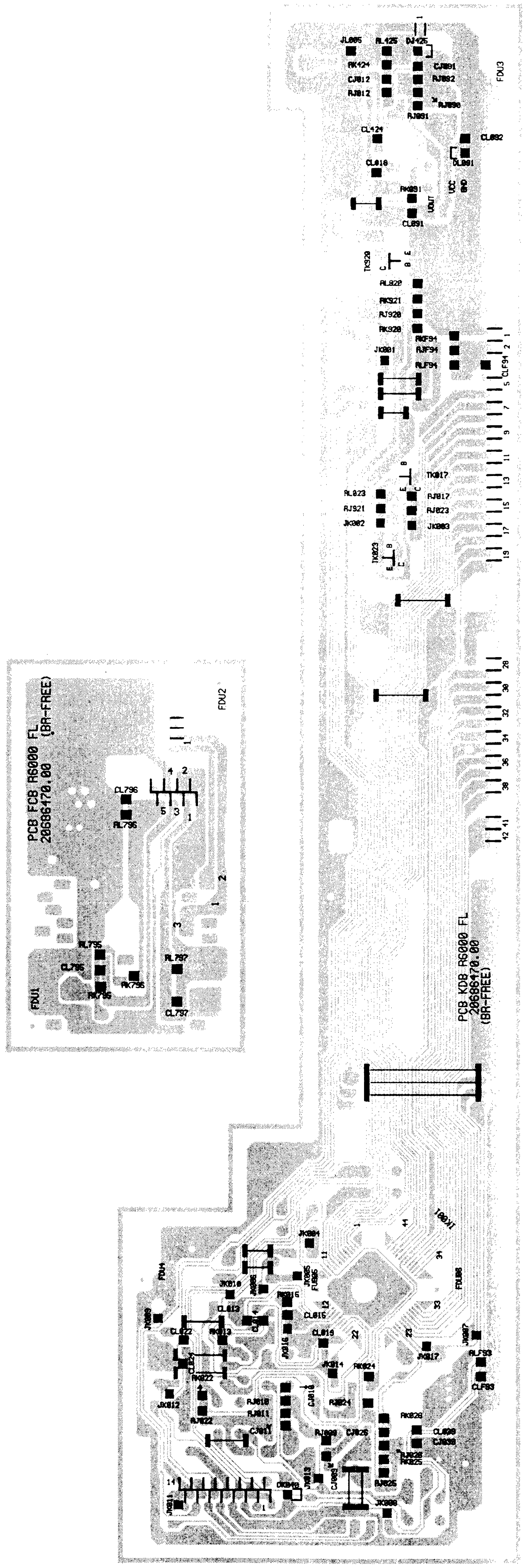
TOCOM	DESCRIPTION	CAM.PAUSE	FAV	S/W	ECO	SK001-SK008	MODELS
20685500	ASY KDB/FCB R6 FL1/FL1	YES	2	R6-R1T	YES	HIFI/MONO	VP2750,VP4750
20729530	ASY KDB/FCB R6 FL2/FL2	YES	3	R6-R1T	NO	HIFI/MONO	VPH6750
20723090	EQU KDB R6 FL3	NO	NO	R6-R1T	YES	HIFI/MONO	VP2701,VP4701,V2700,V4700

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(THOMSON : VPH 6750)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

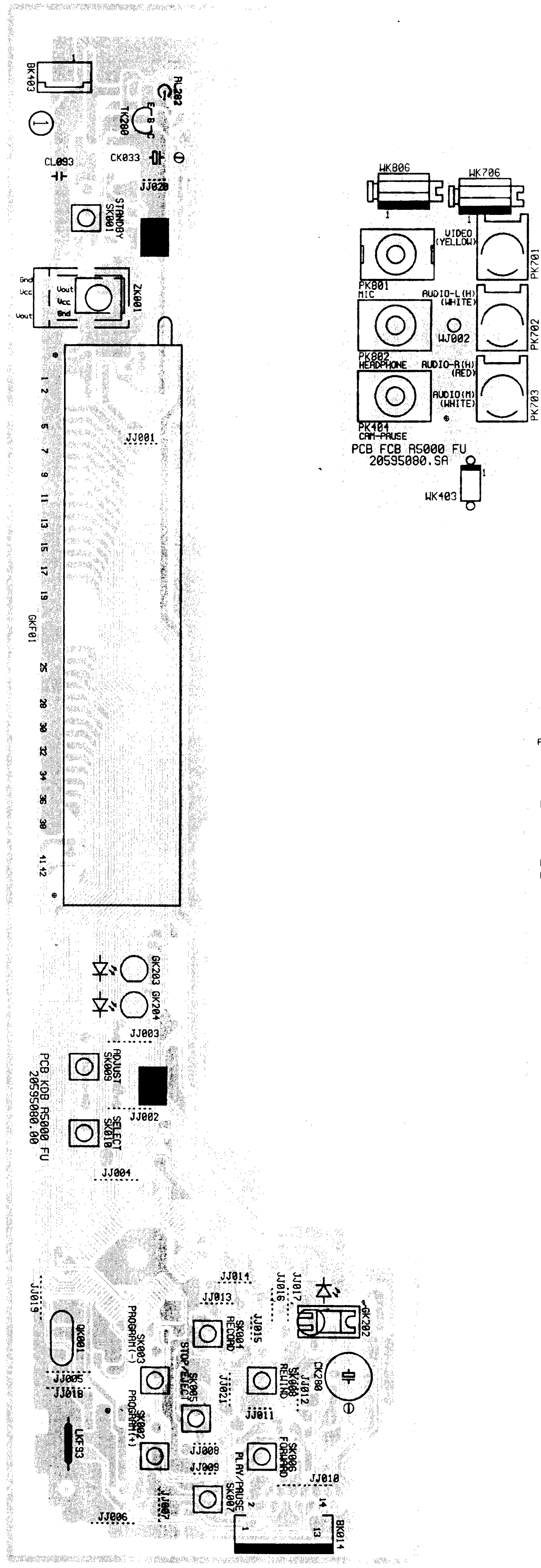

AUDIO.L
AUDIO.R
VIDEO.IN
WHITE
RED
YEL
PK702
PK701
PK703
BK706
WK002
PCB FCB A6000 FL 20686470.00 (BA-FREE)
PCB KDB A6000 FL 20686470.00 (BA-FREE)
CK033
CL033
JJ001
JJ002
JJ003
JJ004
JJ005
JJ006
JJ007
JJ008
JJ009
GKF01

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

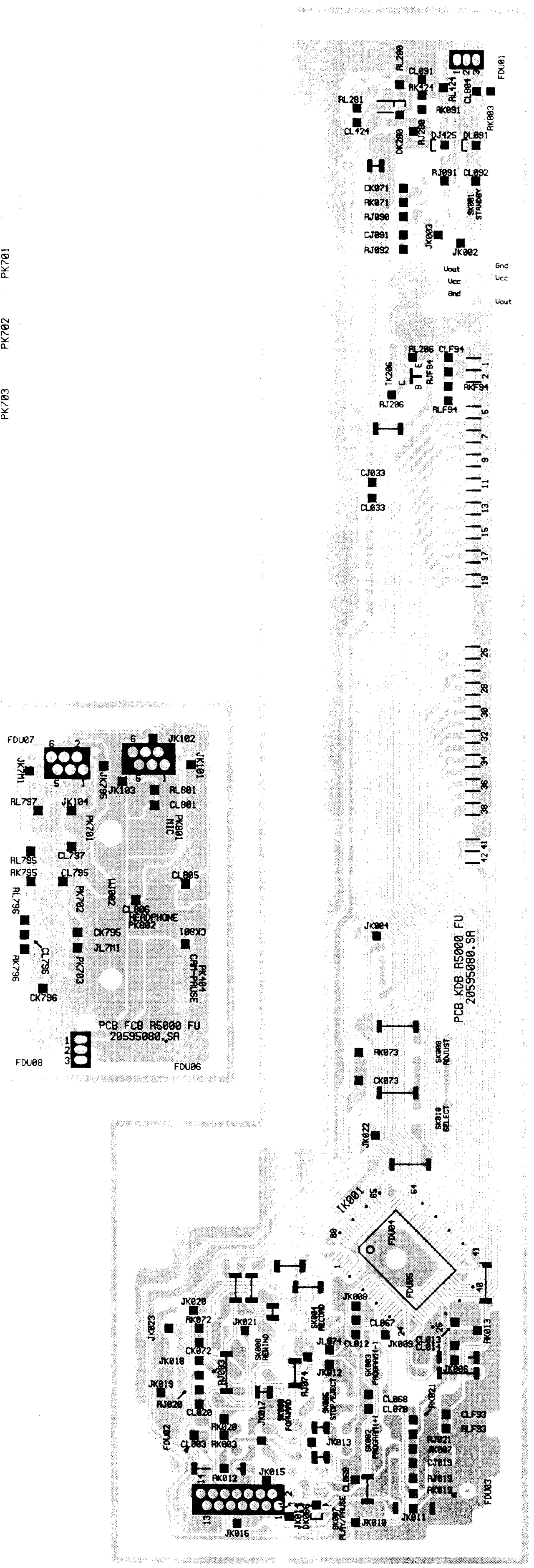

PCB FCB A6000 FL 20686470.00 (BA-FREE)
PCB KDB A6000 FL 20686470.00 (BA-FREE)
FDU1
FDU2
FDU3
CL796
RL796
RL795
RK796
RL797
CL797

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(TELEFUNKEN : M 9680 HIFI)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado

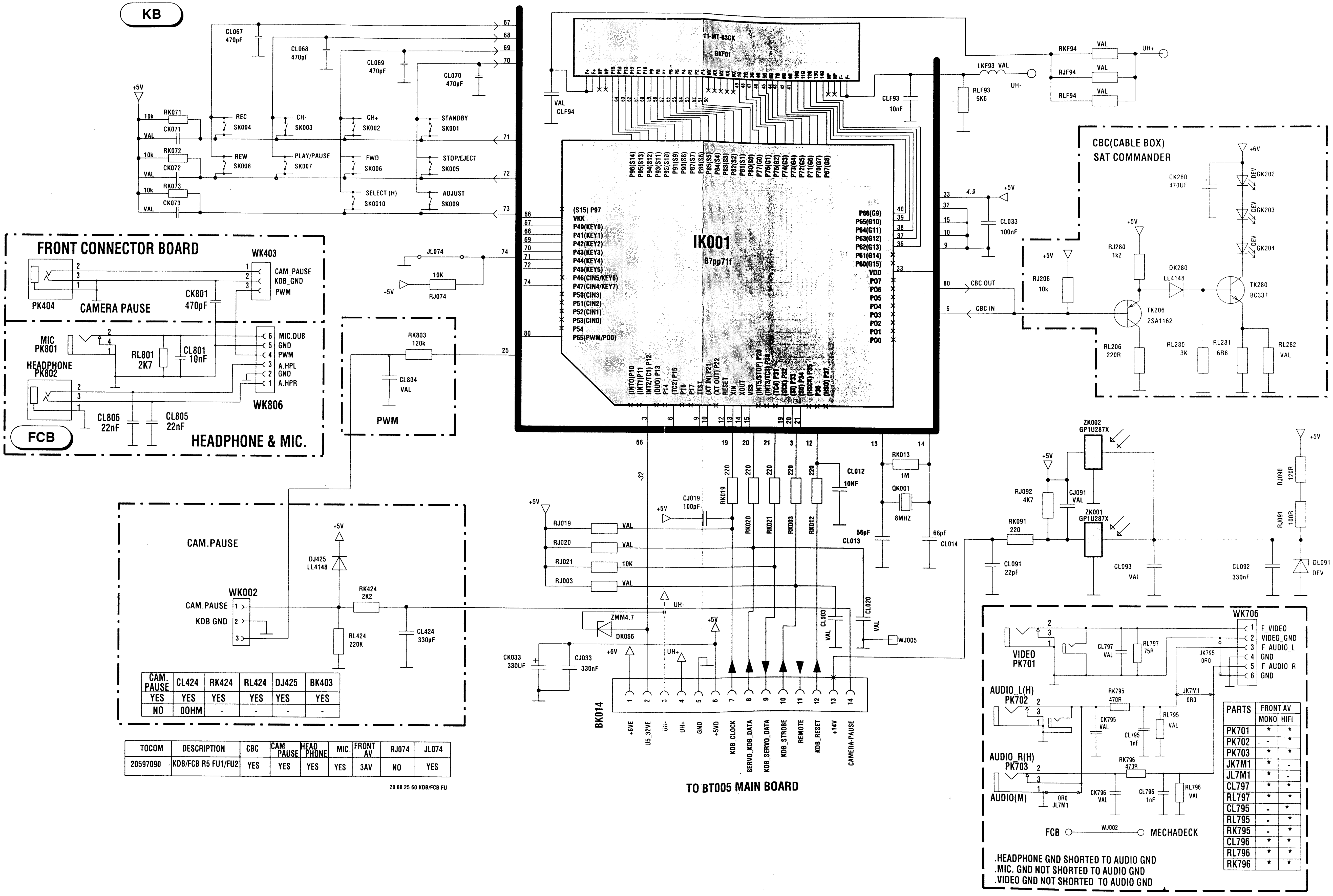

WK806
WK706
VIDEO (YELLOW)
PK701
PK801 MIC
AUDIO-L(H) (WHITE)
WJ002
PK702
PK802 HEADPHONE
AUDIO-R(H) (RED)
AUDIO(M) (WHITE)
PK703
PK404 CAM-PAUSE
PCB FCB A5000 FU 20595000.SA
WK403
PCB KDB A5000 FU 20595000.00
STANDBY
ADJUST
SELECT
PROGRAM(-)
PROGRAM(+)
RECORD
STOP/EJECT
REWIND
FORWARD
PLAY/PAUSE

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


FDU07
JK102
JK101
JK103
JK104
RL801
CL801
RL797
RL795
RK795
CL797
CL795
CL805
CK795
JL7H1
CK796
PCB FCB A5000 FU 20595000.SA
FDU08
FDU06
PCB KDB A5000 FU 20595000.SA

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: M 9680 HIFI)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


KB
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
REC SK004
CH- SK003
CH+ SK002
STANDBY SK001
REW SK008
PLAY/PAUSE SK007
FWD SK006
STOP/EJECT SK005
SELECT (H) SK0010
ADJUST SK009
67
68
69
70
71
72
73
74
JL074
10K RJ074
FRONT CONNECTOR BOARD
WK403
CAM_PAUSE
KDB_GND
PWM
PK404
CAMERA PAUSE
CK801 470pF
MIC PK801
RL801 2K7
CL801 10nF
HEADPHONE PK802
MIC.DUB
GND
PWM
A.HPL
GND
A.HPR
WK806
CL806 22nF
CL805 22nF
FCB
HEADPHONE & MIC.
RK803 120k
CL804 VAL
PWM
25
80
11-MT-83GK
GKF01
VAL CLF94
IK001
87pp71f
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PD0)
P96(S14)
P95(S13)
P94(S12)
P93(S11)
P92(S10)
P91(S9)
P90(S8)
P87(S7)
P86(S6)
P85(S5)
P84(S4)
P83(S3)
P82(S2)
P81(S1)
P80(S0)
P77(G0)
P76(G1)
P75(G2)
P74(G3)
P73(G4)
P72(G5)
P71(G6)
P70(G7)
P67(G8)
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
(INT0)P10
(INT1)P11
(INT2/TC1) P12
(DVO) P13
P14
(TC2) P15
P16
P17
TEST
(XT IN) P21
(XT OUT) P22
RESET
XIN
XOUT
VSS
(INT5/STOP) P20
RKF94 VAL
RJF94 VAL
RLF94 VAL
UH+
LKF93 VAL
UH-
RLF93 5K6
CLF93 10nF
CBC(CABLE BOX)
SAT COMMANDER
CK280 470UF
+6V
DEV GK202
DEV GK203
DEV GK204
+5V
RJ280 1k2
DK280 LL4148
TK280 BC337
RJ206 10k
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
CL033 100nF
4.9
CBC OUT
CBC IN
ZK002 GP1U287X
ZK001 GP1U287X
RJ092 4K7
CJ091 VAL
RK091 220
CL091 22pF
CL093 VAL
CL092 330nF
RJ090 120R
RJ091 100R
DL091 DEV
RK013 1M
QK001 8MHZ
56pF CL013
68pF CL014
CL012 10NF
CJ019 100pF
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
CL003 VAL
CL020 VAL
WJ005
ZMM4.7 DK066
CK033 330UF
CJ033 330nF
UH-
UH+
+6V
CAM.PAUSE
+5V
DJ425 LL4148
RK424 2K2
RL424 220K
CL424 330pF
WK002
CAM.PAUSE
KDB GND
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
WK706
F_VIDEO
VIDEO_GND
F_AUDIO_L
GND
F_AUDIO_R
GND
VIDEO PK701
CL797 VAL
RL797 75R
JK795 0R0
AUDIO_L(H) PK702
RK795 470R
JK7M1 0R0
CK795 VAL
CL795 1nF
RL795 VAL
AUDIO_R(H) PK703
RK796 470R
AUDIO(M)
0R0 JL7M1
CK796 VAL
CL796 1nF
RL796 VAL
FCB
WJ002
MECHADECK

CAM. PAUSE	CL424	RK424	RL424	DJ425	BK403
YES	YES	YES	YES	YES	YES
NO	0OHM	-	-	-	-

TOCOM	DESCRIPTION	CBC	CAM PAUSE	HEAD PHONE	MIC.	FRONT AV	RJ074	JL074
20597090	KDB/FCB R5 FU1/FU2	YES	YES	YES	YES	3AV	NO	YES

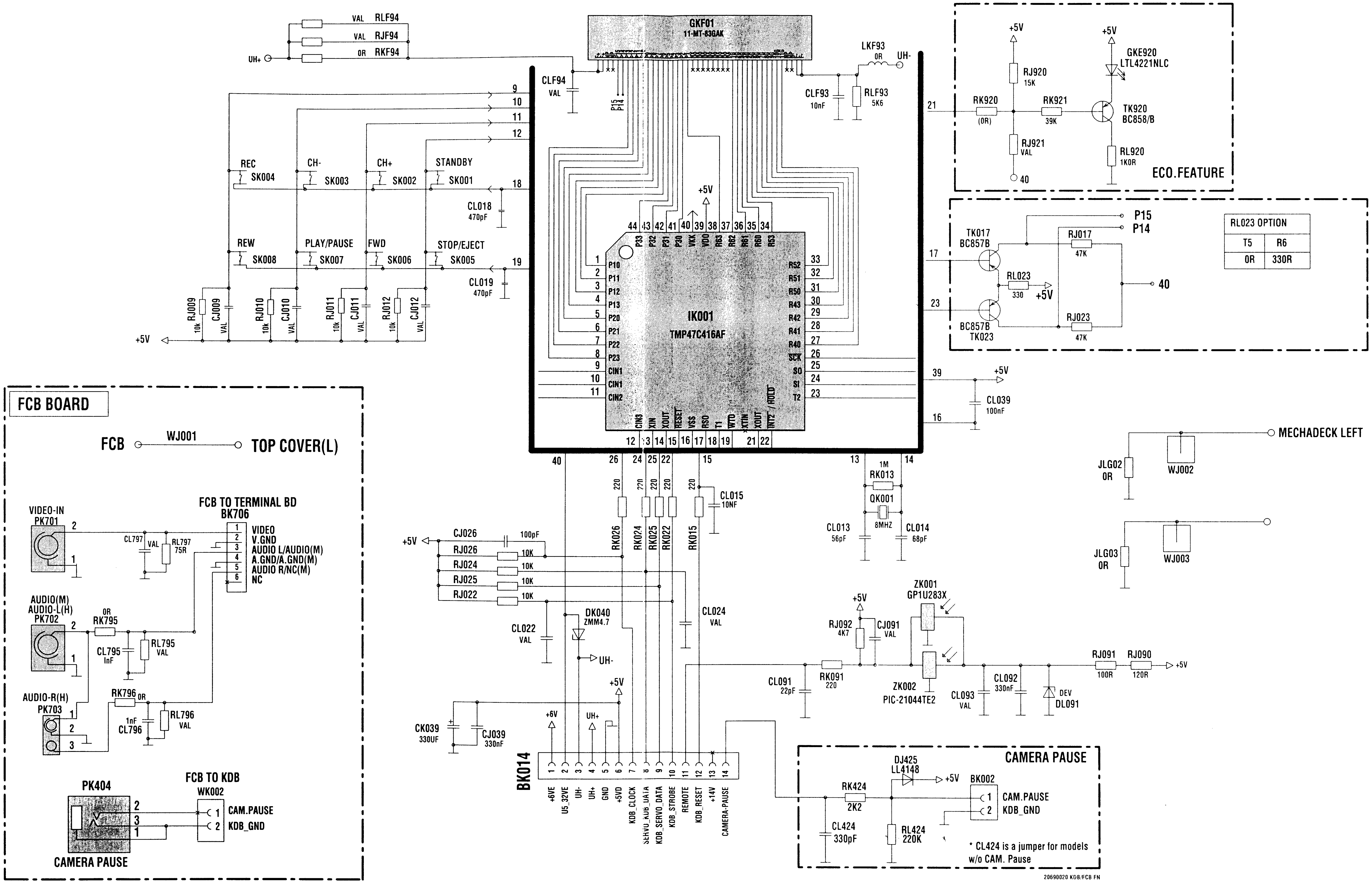
20 60 25 60 KDB/FCB FU

PARTS	FRONT AV	
	MONO	HIFI
PK701	*	*
PK702	-	*
PK703	*	*
JK7M1	*	-
JL7M1	*	-
CL797	*	*
RL797	*	*
CL795	-	*
RL795	-	*
RK795	-	*
CL796	*	*
RL796	*	*
RK796	*	*

.HEADPHONE GND SHORTED TO AUDIO GND
.MIC. GND NOT SHORTED TO AUDIO GND
.VIDEO GND NOT SHORTED TO AUDIO GND

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 8087)

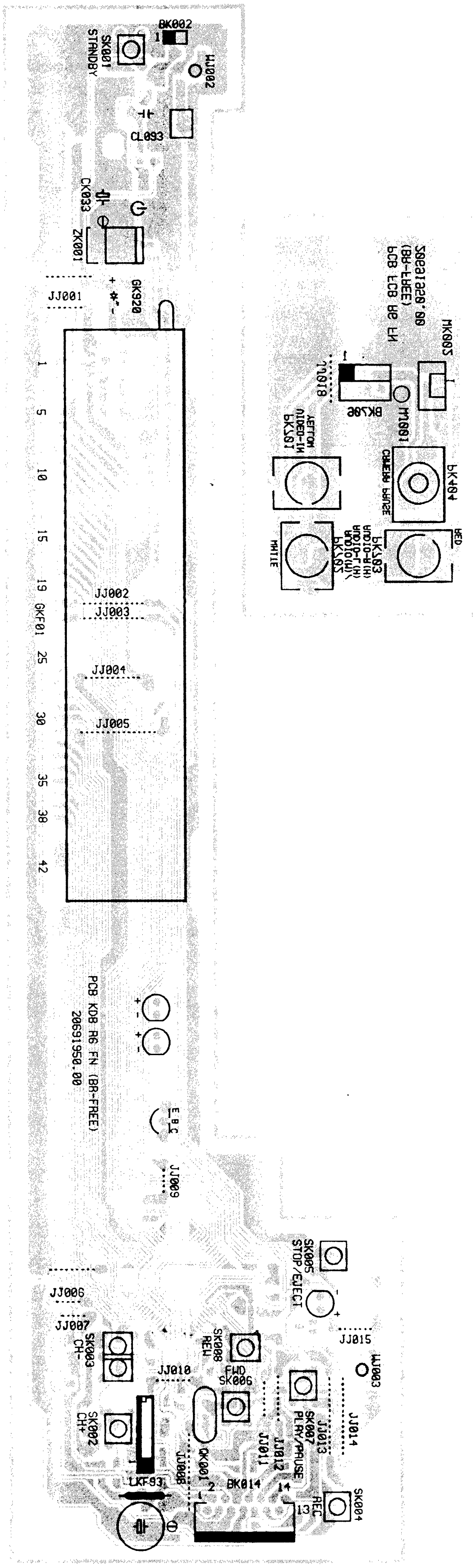
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


GKF01
11-MT-83GAK
UH+
VAL RLF94
VAL RJF94
0R RKF94
CLF94
VAL
P15
P14
LKF93
0R
UH-
CLF93
10nF
RLF93
5K6
9
10
11
12
REC
SK004
CH-
SK003
CH+
SK002
STANDBY
SK001
18
CL018
470pF
REW
SK008
PLAY/PAUSE
SK007
FWD
SK006
STOP/EJECT
SK005
19
CL019
470pF
RJ009
10k
CJ009
VAL
RJ010
10k
CJ010
VAL
RJ011
10k
CJ011
VAL
RJ012
10k
CJ012
VAL
+5V
IK001
TMP47C416AF
P10
P11
P12
P13
P20
P21
P22
P23
CIN1
CIN1
CIN2
P33
P32
P31
P30
VKK
VDD
R63
R62
R61
R60
R53
R52
R51
R50
R43
R42
R41
R40
SCK
SO
SI
T2
CIN3
XIN
XOUT
RESET
VSS
RSO
T1
WTO
XTIN
XOUT
INT2 / HOLD
+5V
RK920
(0R)
RK921
39K
RJ920
15K
RJ921
VAL
40
GKE920
LTL4221NLC
TK920
BC858/B
RL920
1K0R
ECO.FEATURE
21
P15
P14
TK017
BC857B
RJ017
47K
RL023
330
+5V
40
BC857B
TK023
RJ023
47K
17
23
RL023 OPTION
T5 | R6
0R | 330R
39
+5V
CL039
100nF
16
MECHADECK LEFT
JLG02
0R
WJ002
JLG03
0R
WJ003
13
14
1M
RK013
QK001
8MHZ
CL013
56pF
CL014
68pF
40
26
24
25
22
15
220
RK026
RK024
RK025
RK022
RK015
CL015
10NF
+5V
CJ026
100pF
RJ026
10K
RJ024
10K
RJ025
10K
RJ022
10K
CL022
VAL
DK040
ZMM4.7
UH-
CL024
VAL
+5V
CK039
330UF
CJ039
330nF
+6V
UH+
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
ZK001
GP1U283X
+5V
RJ092
4K7
CJ091
VAL
CL091
22pF
RK091
220
ZK002
PIC-21044TE2
CL093
VAL
CL092
330nF
DEV
DL091
RJ091
100R
RJ090
120R
+5V
CAMERA PAUSE
DJ425
LL4148
+5V
BK002
RK424
2K2
CL424
330pF
RL424
220K
CAM.PAUSE
KDB_GND
* CL424 is a jumper for models w/o CAM. Pause
20690020 KDB/FCB FN
FCB BOARD
FCB
WJ001
TOP COVER(L)
VIDEO-IN
PK701
CL797
VAL
RL797
75R
FCB TO TERMINAL BD
BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
AUDIO(M)
AUDIO-L(H)
PK702
0R
RK795
RL795
VAL
CL795
InF
AUDIO-R(H)
PK703
RK796
0R
RL796
VAL
1nF
CL796
PK404
FCB TO KDB
WK002
CAM.PAUSE
KDB_GND
CAMERA PAUSE

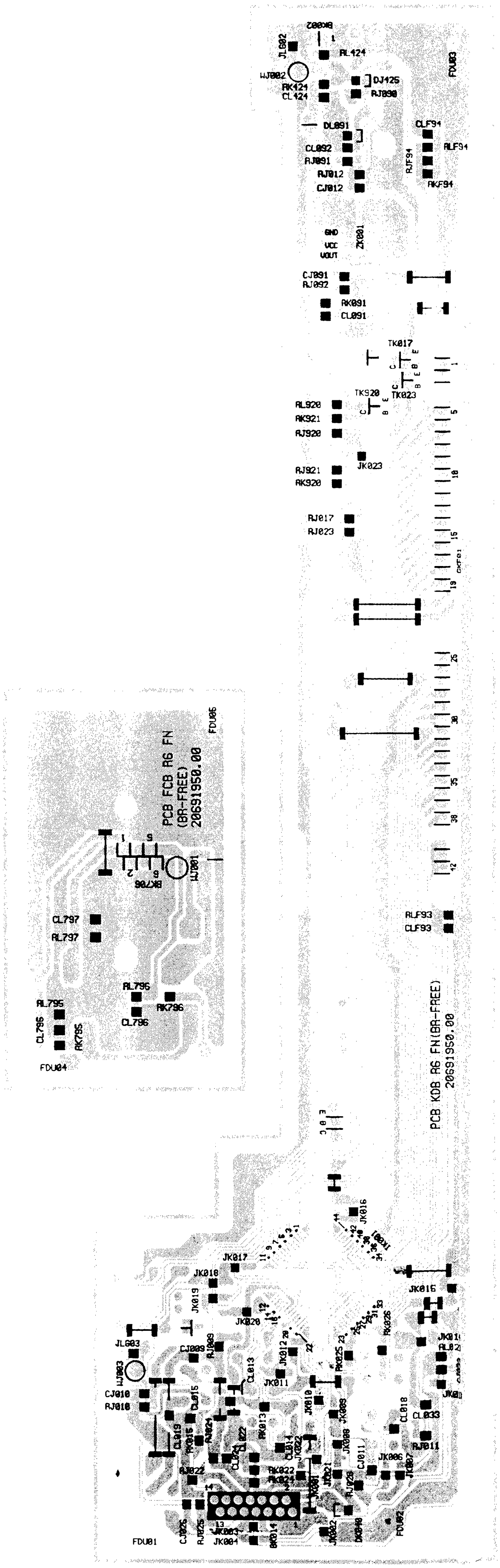
TOCOM	DESCRIPTION	CAM.PAUSE	FAV	MODEL	ECO	RL023	WJ002	JLG02	TOOL
20699840	EQU KDB R6 FN1	NO	NO	T5000	NO	0R	NO	NO	97-3B
20734180	EQU KDB R6 FN2	NO	NO	R6000	YES	330R	YES	YES	97-3B

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(SABA: VR8087)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

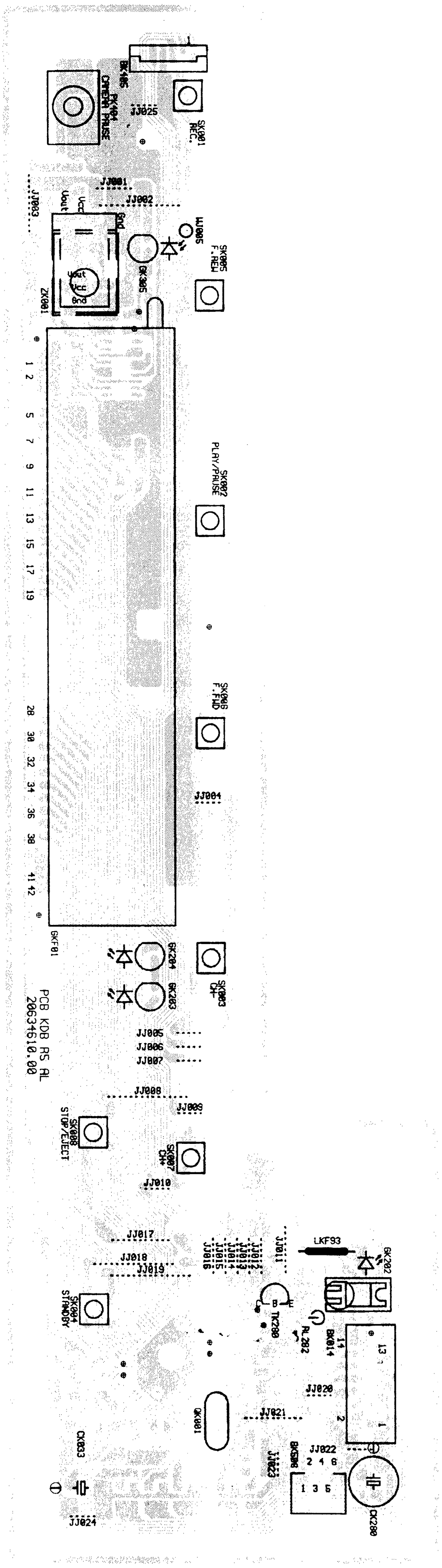

BK002
SK001 STANDBY
WJ002
CL093
CK033
ZK001
GK920
JJ001
JJ002
JJ003
GKF01
JJ004
JJ005
PCB KDB R6 FN (BR-FREE) 20691950.00
JJ009
MK002
PCB FCB R6 FN (BR-FREE) 20691950.00
JJ018
BK706
M1001
PK404 CAMERA PAUSE
PK701 VIDEO-IN YELLOW
PK703 AUDIO-IN (R)
RED
WHITE
SK005 STOP/EJECT
JJ006
JJ007
SK003 CH-
SK008 REW
JJ015
WJ003
JJ010
FWD SK006
SK007 PLAY/PAUSE
JJ013
JJ014
SK002 CH+
JJ011
JJ012
JJ008
CK001
BK014
LKF93
SK004 REC

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

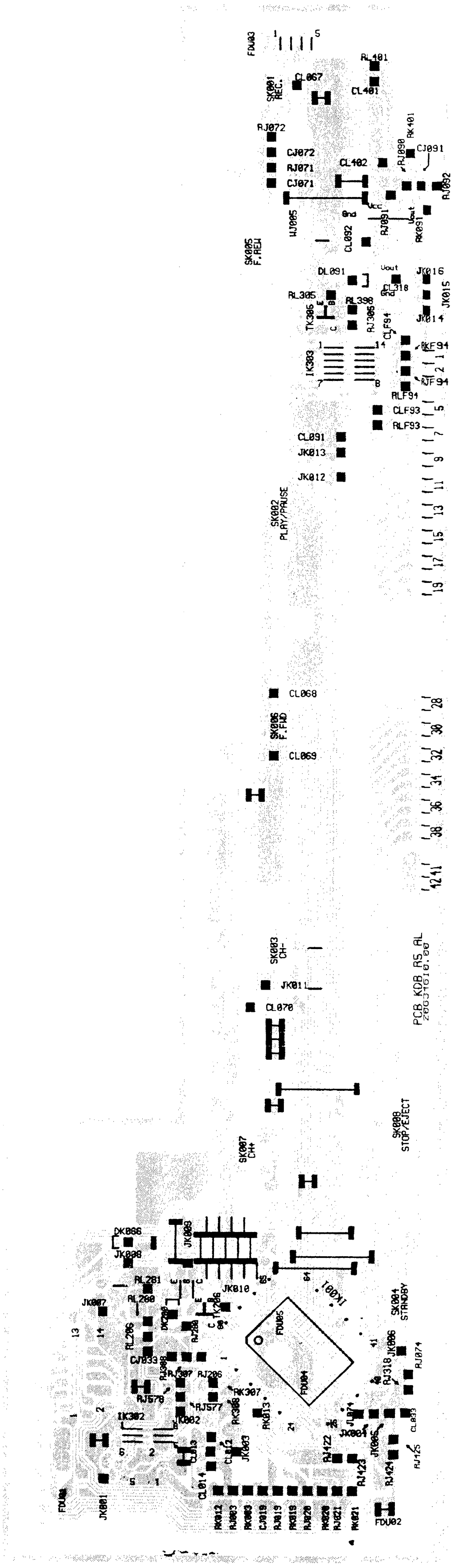

BK002
JL092
RL424
WJ002
DJ425
RK424
CL424
RJ090
FDU03
DL091
CLF94
CL092
RLF94
RJ091
RJ012
CJ012
RJF94
RKF94
GND
VCC
VOUT
ZK001
CJ091
RJ092
RK091
CL091
TK017
TK920
TK023
RL920
RK921
RJ920
JK023
RJ921
RK920
RJ017
RJ023
GKF01
PCB FCB R6 FN (BR-FREE) 20691950.00
FDU06
M1001
BK706
CL797
RL797
RL796
RK796
RL795
CL796
CL795
RK795
FDU04
RLF93
CLF93
PCB KDB R6 FN (BR-FREE) 20691950.00
JK016
JK017
JK018
JK015
JK019
JK020
JL003
CJ009
WJ003
CJ010
RJ010
JK011
FDU01
JK003
JK004
BK014
FDU02

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(NORMENDE : V 3450 SV)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

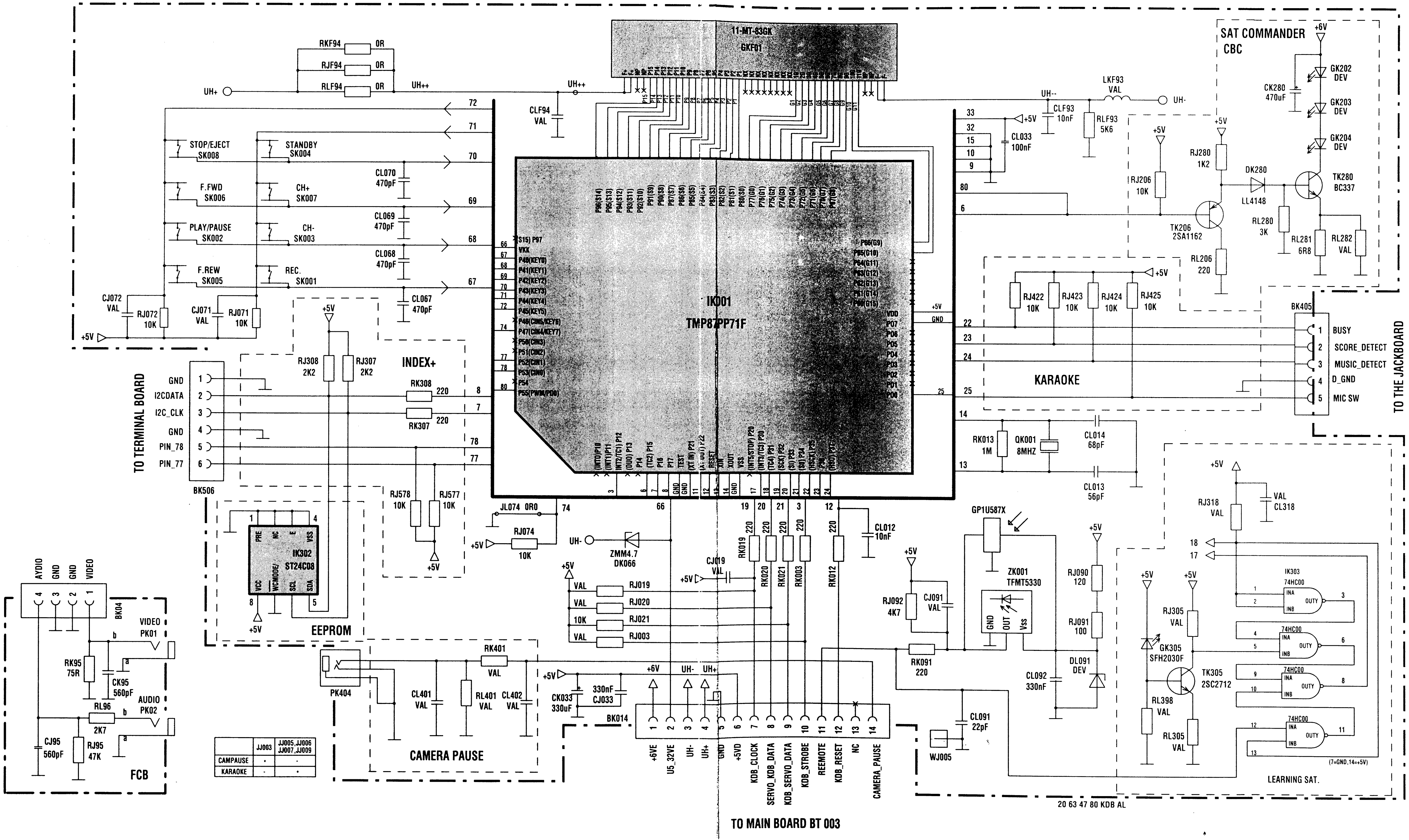

SK001 REC.
BK405
PK404 CAMERA PAUSE
JJ025
JJ001
JJ002
JJ003
Vout
Vcc
Gnd
WJ005
SK005 F.REW
GK305
ZK001
1 2 5 7 9 11 13 15 17 19
SK002 PLAY/PAUSE
SK006 F.FWD
28 30 32 34 36 38 41 42
JJ004
GKF01
GK204
GK203
SK003 CH-
PCB KDB RS AL 20634610.00
JJ005
JJ006
JJ007
JJ008
JJ009
SK008 STOP/EJECT
SK007 CH+
JJ010
JJ017
JJ018
JJ019
LKF93
GK202
TK200
RL202
BK014
SK004 STANDBY
JJ020
JJ021
JJ022
QK001
CK033
JJ024
CK200

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


FDU03
RL401
CL067
CL401
SK001 REC.
RJ072
RK401
CJ072
RJ071
CJ071
CL402
CJ091
RJ092
WJ005
SK005 F.REW
CL092
RK091
DL091
JK016
JK015
RL305
RL390
TK306
RJ306
JK014
IK303
RKF94
RJF94
RLF94
CLF93
RLF93
CL091
JK013
JK012
SK002 PLAY/PAUSE
CL068
SK006 F.FWD
CL069
SK003 CH-
JK011
CL070
PCB KDB RS AL 20634610.00
SK008 STOP/EJECT
SK007 CH+
DK086
JK009
JK008
RL201
RL200
JK007
JK010
FDU05
FDU04
SK004 STANDBY
JK006
RJ074
IK302
JK004
FDU02
JK001
FDU01

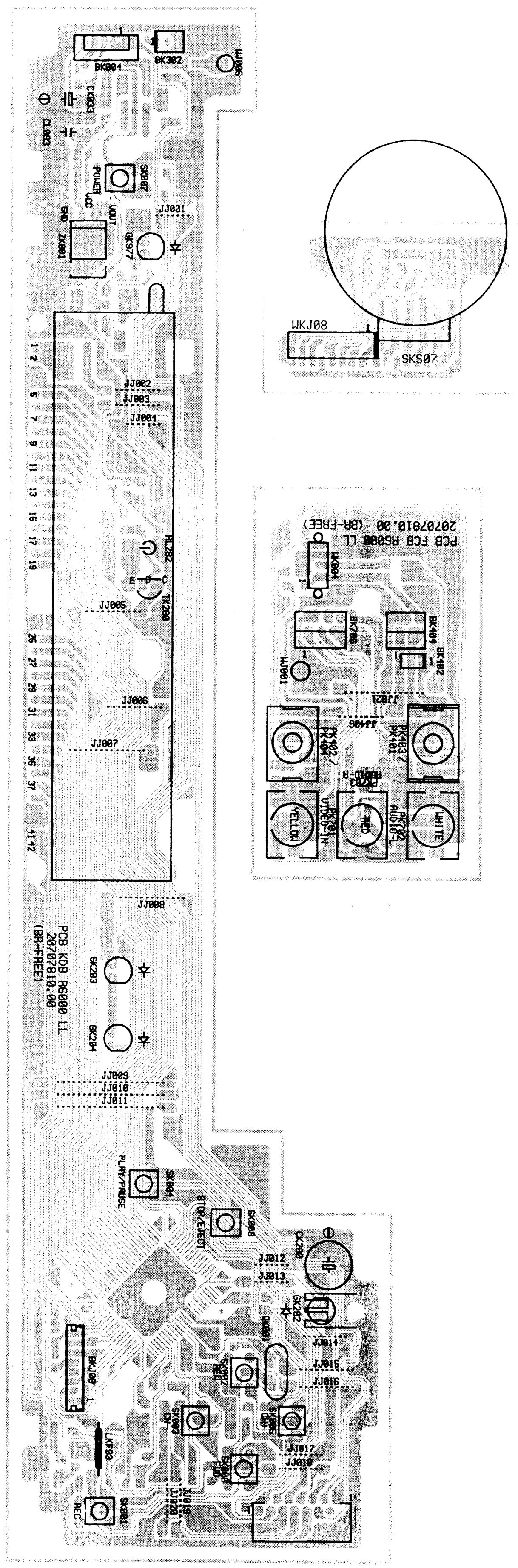
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (NORMENDE: V 3450 SV)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

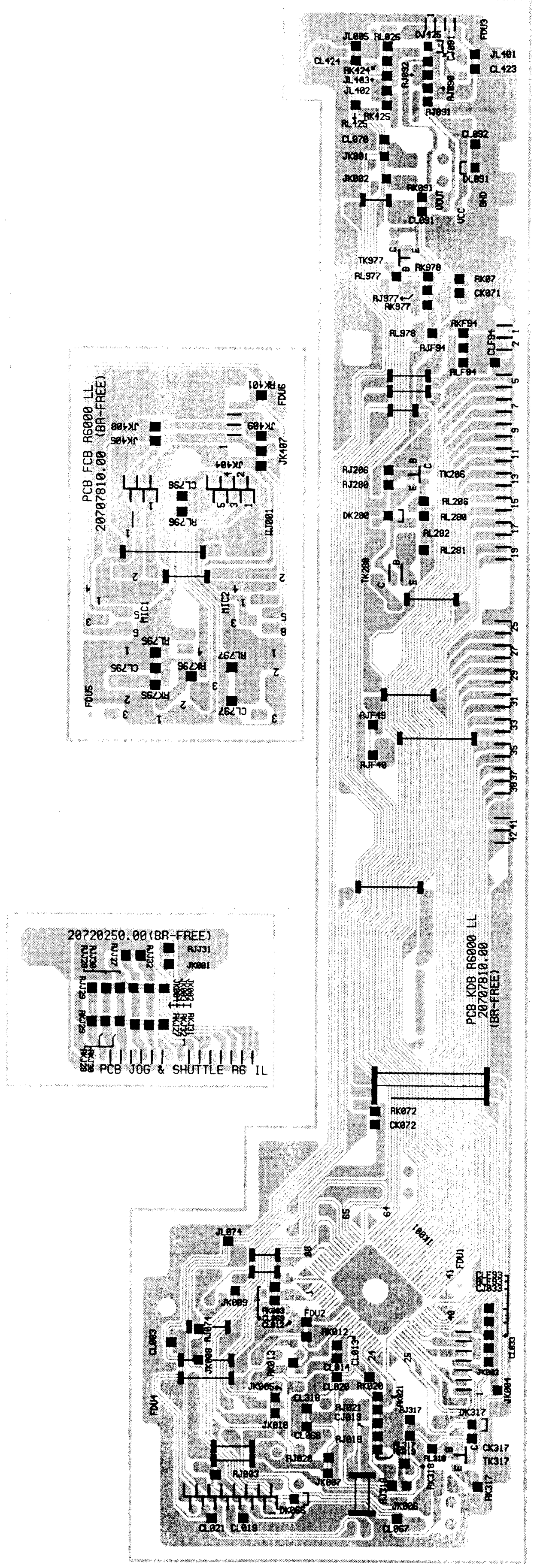

11-MT-83GK
GKF01
RKF94 0R
RJF94 0R
RLF94 0R
UH+
UH++
CLF94 VAL
LKF93 VAL
UH--
UH-
CLF93 10nF
RLF93 5K6
CL033 100nF
STOP/EJECT SK008
STANDBY SK004
F.FWD SK006
CH+ SK007
PLAY/PAUSE SK002
CH- SK003
F.REW SK005
REC. SK001
CL070 470pF
CL069 470pF
CL068 470pF
CL067 470pF
CJ072 VAL
RJ072 10K
CJ071 VAL
RJ071 10K
+5V
IK001
TMP87PP71F
SAT COMMANDER
CBC
+6V
GK202 DEV
GK203 DEV
GK204 DEV
CK280 470uF
RJ280 1K2
DK280
LL4148
TK280 BC337
RJ206 10K
TK206 2SA1162
RL280 3K
RL281 6R8
RL282 VAL
RL206 220
RJ422 10K
RJ423 10K
RJ424 10K
RJ425 10K
KARAOKE
BK405
1 BUSY
2 SCORE_DETECT
3 MUSIC_DETECT
4 D_GND
5 MIC SW
TO THE JACKBOARD
TO TERMINAL BOARD
GND
I2CDATA
I2C_CLK
GND
PIN_78
PIN_77
BK506
RJ308 2K2
RJ307 2K2
INDEX+
RK308 220
RK307 220
RJ578 10K
RJ577 10K
IK302
ST24C08
PRE NC E VSS
VCC WCMODE/ SCL SDA
EEPROM
JL074 0R0
RJ074 10K
ZMM4.7 DK066
CJ019 VAL
VAL RJ019
VAL RJ020
VAL RJ021
10K RJ003
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CL012 10nF
RK013 1M
QK001 8MHZ
CL014 68pF
CL013 56pF
GP1U587X
ZK001 TFMT5330
GND OUT Vss
RJ092 4K7
CJ091 VAL
RJ090 120
RJ091 100
DL091 DEV
CL092 330nF
RK091 220
CL091 22pF
WJ005
RJ318 VAL
CL318 VAL
18
17
IK303 74HC00
INA INB OUTY
RJ305 VAL
GK305 SFH2030F
TK305 2SC2712
RL398 VAL
RL305 VAL
(7=GND,14=+5V)
LEARNING SAT.
AYDIO GND GND VIDEO
BK04
VIDEO PK01
RK95 75R
CK95 560pF
AUDIO PK02
RL96 2K7
CJ95 560pF
RJ95 47K
FCB
JJ003
JJ005,JJ006 JJ007,JJ009
CAMPAUSE
KARAOKE
PK404
RK401 VAL
CL401 VAL
RL401 VAL
CL402 VAL
CAMERA PAUSE
CK033 330uF
330nF CJ033
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REEMOTE
KDB_RESET
NC
CAMERA_PAUSE
TO MAIN BOARD BT 003
20 63 47 80 KDB AL

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(THOMSON : VPH 6751)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

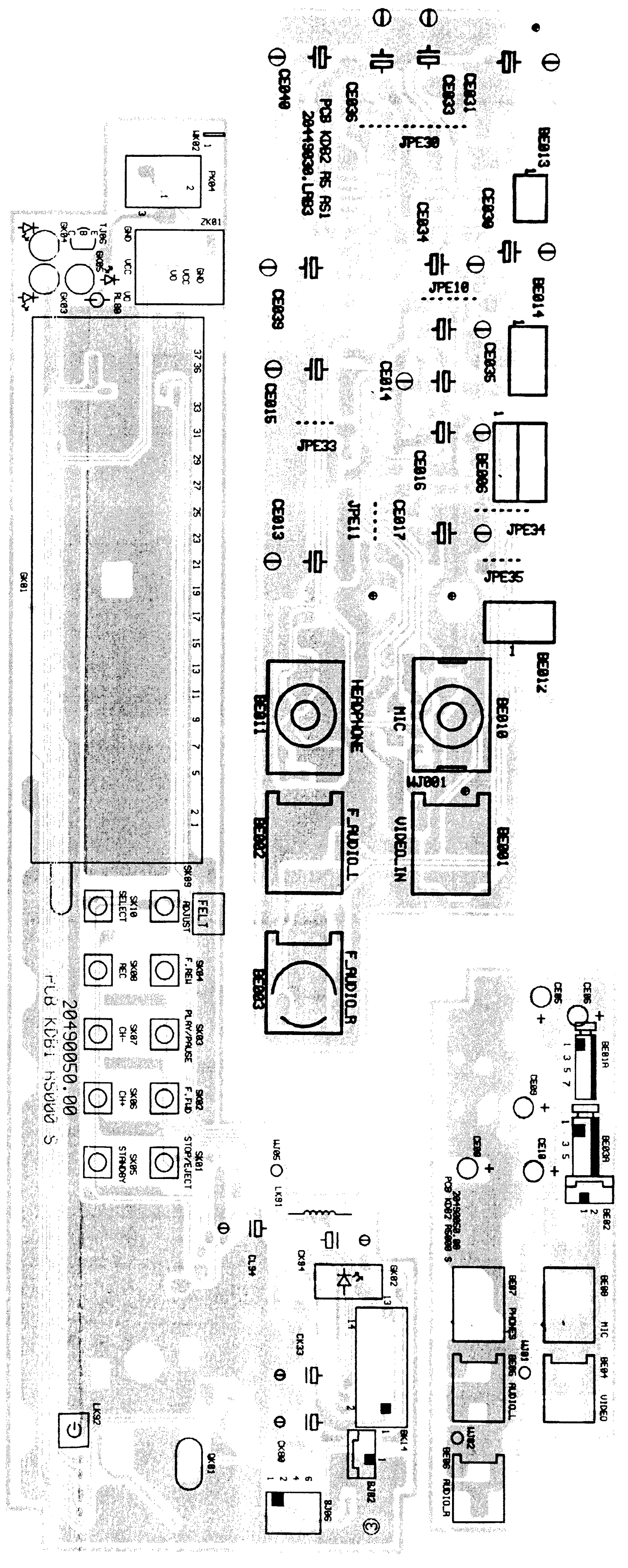

PCB KDB R6000 LL
20707810.00
(BR-FREE)
WKJ08
SKS07
PCB FCB R6000 LL
20707810.00 (BR-FREE)
YELLOW
RED
WHITE
20720250.00(BR-FREE)
PCB JOG & SHUTTLE R6 IL
PLAY/PAUSE
STOP/EJECT

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

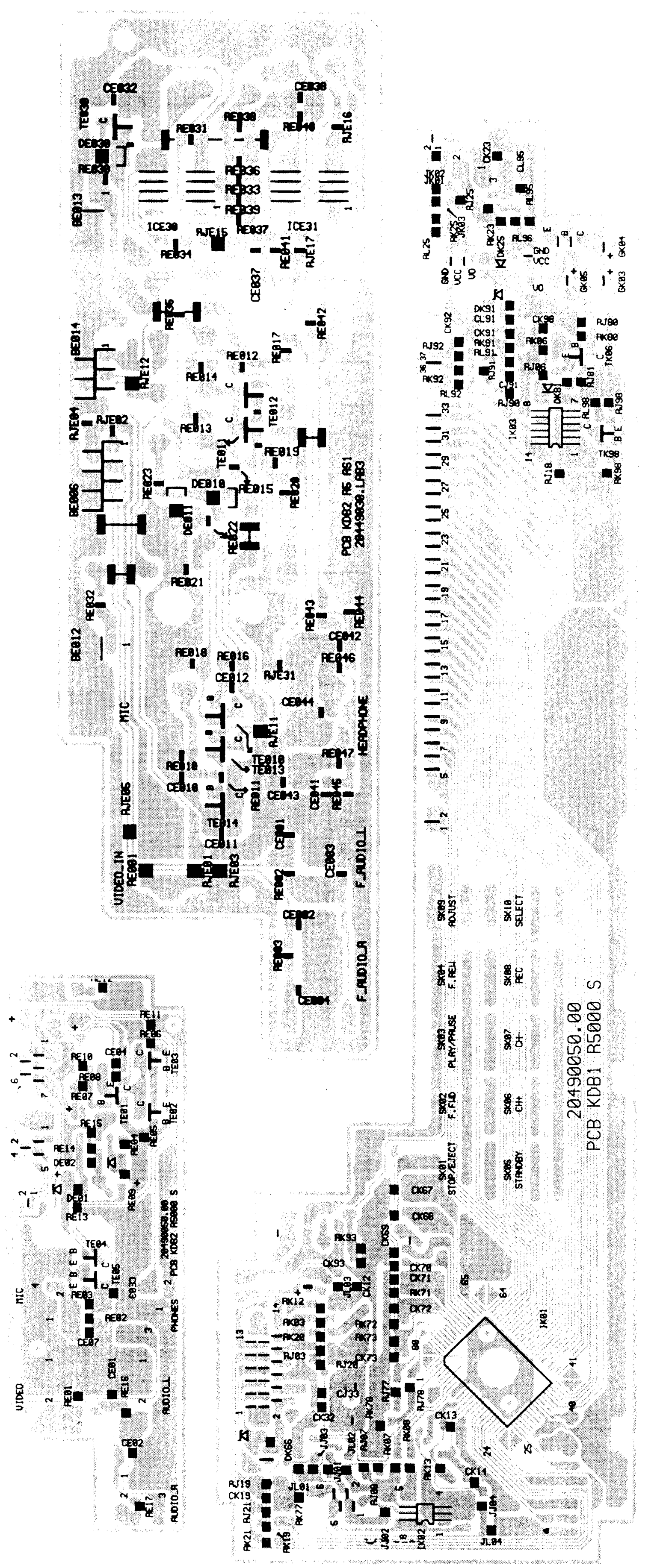

PCB FCB R6000 LL
20707810.00
(BR-FREE)
PCB KDB R6000 LL
20707810.00
(BR-FREE)

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(TELEFUNKEN : M 9571 HIFI)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

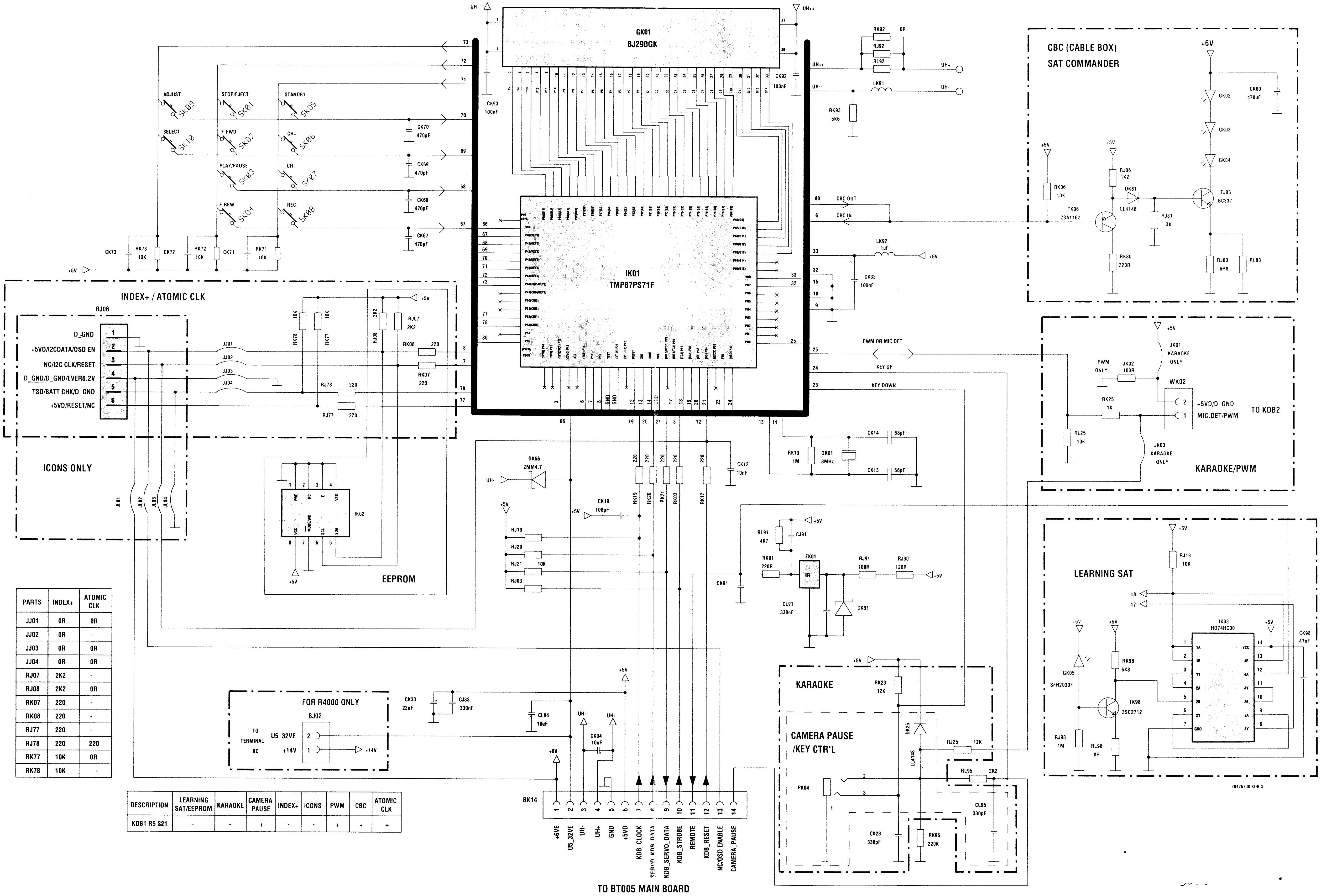

PCB KDB2 R5 RS1
20490030.LRB3
JPE30
JPE10
JPE33
JPE11
JPE34
JPE35
HEADPHONE
MIC
WJ001
F.AUDIO.L
VIDEO.IN
F.AUDIO.R
FELT
ADJUST
SELECT
F.REW
REC
PLAY/PAUSE
CH-
F.FWD
CH+
STOP/EJECT
STANDBY
PCB KDB1 R5000 S
20490050.00

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


PCB KDB2 R5 RS1
20490030.LRB3
HEADPHONE
MIC
VIDEO.IN
F.AUDIO.L
F.AUDIO.R
ADJUST
SELECT
F.REW
REC
PLAY/PAUSE
CH-
F.FWD
CH+
STOP/EJECT
STANDBY
20490050.00
PCB KDB1 R5000 S

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: M 9571 HIFI)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

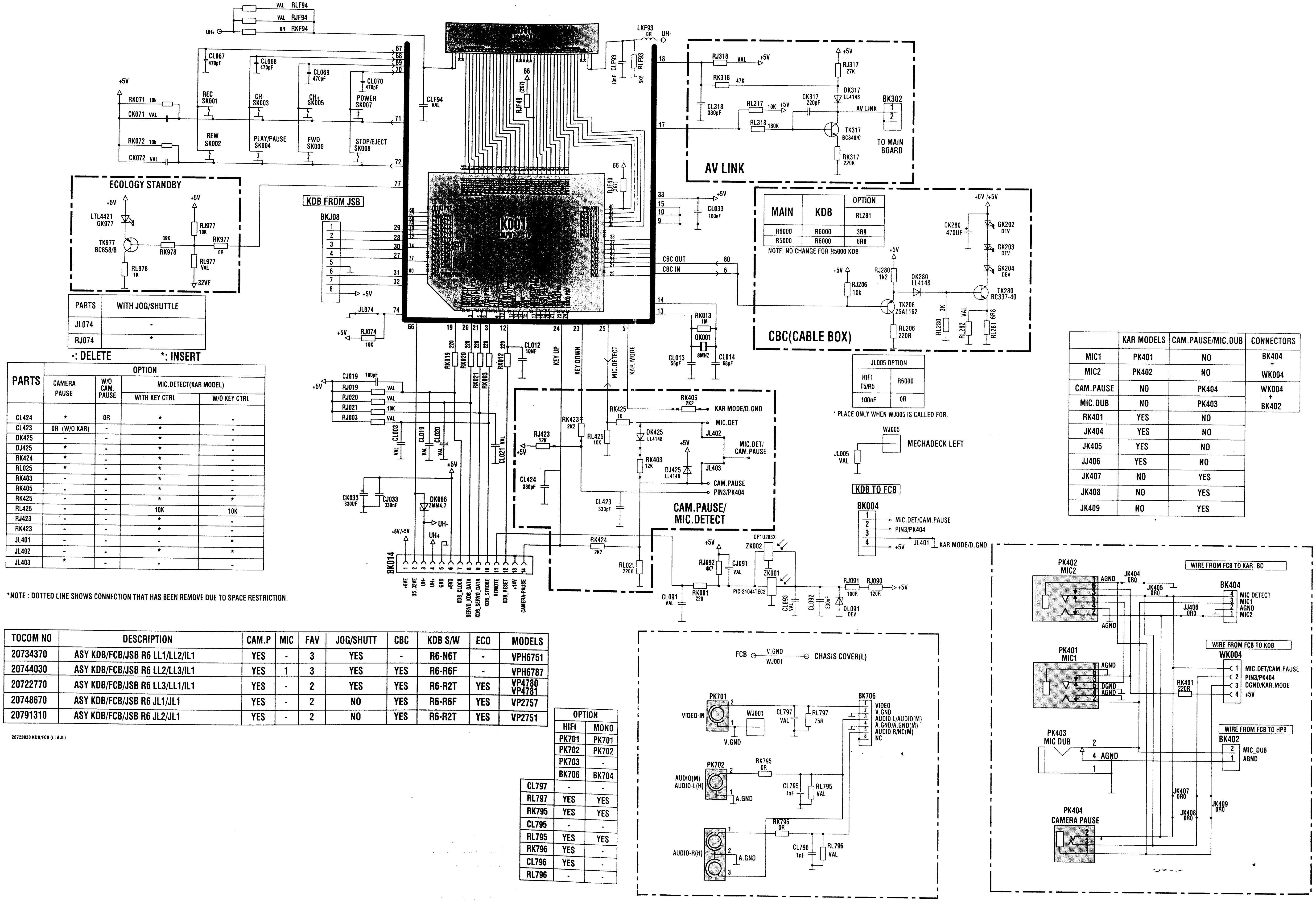

GK01
BJ290GK
IK01
TMP87PS71F
ADJUST
SK09
STOP/EJECT
SK01
STANDBY
SK05
SELECT
SK10
F.FWD
SK02
CH+
SK06
PLAY/PAUSE
SK03
CH-
SK07
F.REW
SK04
REC.
SK08
CK70 470pF
CK69 470pF
CK68 470pF
CK67 470pF
CK93 100nF
CK92 100nF
RK73 10K
RK72 10K
RK71 10K
CK73
CK72
CK71
+5V
INDEX+ / ATOMIC CLK
BJ06
D_GND
+5VD/I2CDATA/OSD EN
NC/I2C CLK/RESET
D_GND/D_GND/EVER6.2V
TSO/BATT CHK/D_GND
+5VD/RESET/NC
JJ01
JJ02
JJ03
JJ04
RK78
RK77
RJ08
RJ07 2K2
RK08 220
RK07 220
RJ78 220
RJ77 220
ICONS ONLY
JL01
JL02
JL03
JL04
IK02
EEPROM
RK92 0R
RJ92
RL92
UH++
UH--
UH+
UH-
LK91
RK93 5K6
CBC OUT
CBC IN
LK92 1uF
CK32 100nF
CBC (CABLE BOX)
SAT COMMANDER
+6V
GK02
GK03
GK04
CK80 470uF
RK06 10K
RJ06 1K2
DK81 LL4148
TK06 2SA1162
TJ06 BC337
RJ81 3K
RK80 220R
RJ80 6R8
RL80
PWM OR MIC DET
KEY UP
KEY DOWN
JK01 KARAOKE ONLY
PWM ONLY
JK02 100R
WK02
+5VD/D_GND
MIC.DET/PWM
TO KDB2
RK25 1K
RL25 10K
JK03 KARAOKE ONLY
KARAOKE/PWM
CK14 68pF
CK13 56pF
RK13 1M
QK01 8MHz
CK12 10nF
DK66 ZMM4.7
CK19 100pF
RK19
RK20
RK21
RK03
RK12
RJ19
RJ20
RJ21 10K
RJ03
RL91 4K7
CJ91
RK91 220R
ZK01
IR
RJ91 100R
RJ90 120R
CK91
CL91 330nF
DK91
LEARNING SAT
RJ18 10K
IK03
HD74HC00
CK98 47nF
GK05 SFH2030F
RK98 6K8
TK98 2SC2712
RJ98 1M
RL98 0R
KARAOKE
RK23 12K
CAMERA PAUSE /KEY CTR'L
DK25
LL4148
RJ25 12K
RL95 2K2
PK04
CL95 330pF
CK23 330pF
RK96 220K
FOR R4000 ONLY
BJ02
TO TERMINAL BD
U5_32VE
+14V
CK33 22uF
CJ33 330nF
CL94 10uF
CK94 10uF
BK14
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
NC/OSD ENABLE
CAMERA_PAUSE
TO BT005 MAIN BOARD
20426730 KDB S

PARTS	INDEX+	ATOMIC CLK
JJ01	0R	0R
JJ02	0R	-
JJ03	0R	0R
JJ04	0R	0R
RJ07	2K2	-
RJ08	2K2	0R
RK07	220	-
RK08	220	-
RJ77	220	-
RJ78	220	220
RK77	10K	0R
RK78	10K	-

DESCRIPTION	LEARNING SAT/EEPROM	KARAOKE	CAMERA PAUSE	INDEX+	ICONS	PWM	CBC	ATOMIC CLK
KDB1 R5 S21	-	-	+	-	-	+	+	+

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6751)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


ECOLOGY STANDBY
LTL4421 GK977
TK977 BC858/B
RK978 39K
RJ977 10K
RK977 0R
RL977 VAL
RL978 1K
32VE
REC SK001
REW SK002
CH- SK003
PLAY/PAUSE SK004
CH+ SK005
FWD SK006
POWER SK007
STOP/EJECT SK008
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
CLF94 VAL
RLF94
RJF94
RKF94 0R
UH+
UH-
LKF93 0R
CLF93
RLF93
RJF49
RJF40
KDB FROM JSB
BKJ08
JL074
RJ074 10K
K001
AV LINK
RJ318
RK318 47K
CL318 330pF
RL317 10K
RL318 180K
CK317 220pF
RJ317 27K
DK317 LL4148
TK317 BC848/C
RK317 220K
BK302
AV-LINK
TO MAIN BOARD
CL033 100nF
CBC OUT
CBC IN
CBC(CABLE BOX)
CK280 470UF
GK202 DEV
GK203 DEV
GK204 DEV
TK280 BC337-40
RJ280 1k2
DK280 LL4148
RJ206 10k
TK206 2SA1162
RL206 220R
RL280 3K
RL282 VAL
RL281 6R8
RK013 1M
QK001 8MHZ
CL013 56pF
CL014 68pF
CL012 10NF
KEY UP
KEY DOWN
MIC.DETECT
KAR MODE
RK019
RK020
RK021
RK003
RK012
CJ019 100pF
RJ019
RJ020
RJ021
RJ003
CL003
CL019
CL020
CL021
CK033 330UF
CJ033 330nF
DK066 ZMM4.7
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
CAM.PAUSE/ MIC.DETECT
RK405 2K2
KAR MODE/D.GND
MIC.DET
MIC.DET/ CAM.PAUSE
CAM.PAUSE
PIN3/PK404
RK423 2K2
RK425 1K
RL425 10K
RJ423 12K
DK425 LL4148
RK403 12K
DJ425 LL4148
JL401
JL402
JL403
CL424 330pF
CL423 330pF
RK424 2K2
RL025 220K
GP1U283X
ZK002
ZK001
PIC-21041TEC2
RJ092 4K7
CJ091 VAL
CL091 VAL
RK091 220
CL093 VAL
CL092 330nF
DL091 DEV
RJ091 100R
RJ090 120R
WJ005
MECHADECK LEFT
JL005 VAL
KDB TO FCB
BK004
MIC.DET/CAM.PAUSE
PIN3/PK404
KAR MODE/D.GND
FCB
V.GND
WJ001
CHASIS COVER(L)
PK701
VIDEO-IN
V.GND
BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
CL797 VAL
RL797 75R
PK702
AUDIO(M) AUDIO-L(H)
RK795 0R
CL795 1nF
RL795 VAL
A.GND
AUDIO-R(H)
RK796 0R
CL796 1nF
RL796 VAL
PK402 MIC2
PK401 MIC1
PK403 MIC DUB
PK404 CAMERA PAUSE
AGND
DGND
WIRE FROM FCB TO KAR. BD
BK404
MIC DETECT
MIC1
AGND
MIC2
JK404 0R0
JK405 0R0
JJ406 0R0
WIRE FROM FCB TO KDB
WK004
MIC.DET/CAM.PAUSE
PIN3/PK404
DGND/KAR.MODE
RK401 220R
WIRE FROM FCB TO HPB
BK402
MIC_DUB
JK407 0R0
JK408 0R0
JK409 0R0

PARTS	WITH JOG/SHUTTLE
JL074	-
RJ074	*

-: DELETE *: INSERT

PARTS	OPTION			
	CAMERA PAUSE	W/O CAM. PAUSE	MIC.DETECT(KAR MODEL)	
			WITH KEY CTRL	W/O KEY CTRL
CL424	*	0R	*	-
CL423	0R (W/O KAR)	-	*	-
DK425	-	-	*	-
DJ425	*	-	*	-
RK424	*	-	*	-
RL025	*	-	*	-
RK403	-	-	*	-
RK405	-	-	*	-
RK425	-	-	*	*
RL425	-	-	10K	10K
RJ423	-	-	*	-
RK423	-	-	*	-
JL401	-	-	-	*
JL402	-	-	*	*
JL403	*	-	-	-

*NOTE : DOTTED LINE SHOWS CONNECTION THAT HAS BEEN REMOVE DUE TO SPACE RESTRICTION.

MAIN	KDB	OPTION
		RL281
R6000	R6000	3R9
R5000	R6000	6R8

NOTE: NO CHANGE FOR R5000 KDB

JL005 OPTION	
HIFI T5/R5	R6000
100nF	0R

* PLACE ONLY WHEN WJ005 IS CALLED FOR.

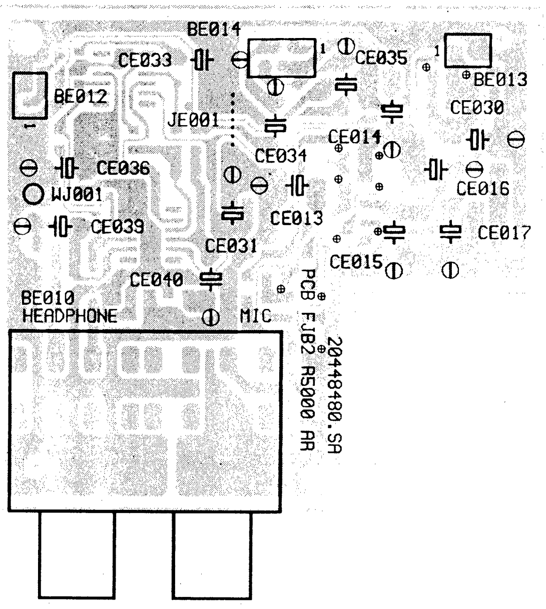
	KAR MODELS	CAM.PAUSE/MIC.DUB	CONNECTORS
MIC1	PK401	NO	BK404 + WK004
MIC2	PK402	NO	
CAM.PAUSE	NO	PK404	WK004 + BK402
MIC.DUB	NO	PK403	
RK401	YES	NO	
JK404	YES	NO	
JK405	YES	NO	
JJ406	YES	NO	
JK407	NO	YES	
JK408	NO	YES	
JK409	NO	YES	

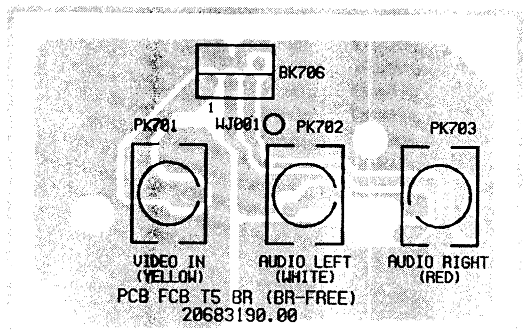
TOCOM NO	DESCRIPTION	CAM.P	MIC	FAV	JOG/SHUTT	CBC	KDB S/W	ECO	MODELS
20734370	ASY KDB/FCB/JSB R6 LL1/LL2/IL1	YES	-	3	YES	-	R6-N6T	-	VPH6751
20744030	ASY KDB/FCB/JSB R6 LL2/LL3/IL1	YES	1	3	YES	YES	R6-R6F	-	VPH6787
20722770	ASY KDB/FCB/JSB R6 LL3/LL1/IL1	YES	-	2	YES	YES	R6-R2T	YES	VP4780 VP4781
20748670	ASY KDB/FCB/JSB R6 JL1/JL1	YES	-	2	NO	YES	R6-R6F	YES	VP2757
20791310	ASY KDB/FCB/JSB R6 JL2/JL1	YES	-	2	NO	YES	R6-R2T	YES	VP2751

20723930 KDB/FCB (LL&JL)

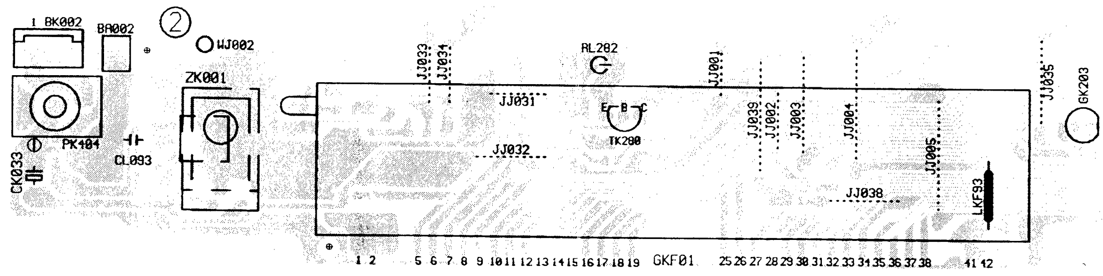
	OPTION	
	HIFI	MONO
	PK701	PK701
	PK702	PK702
	PK703	-
	BK706	BK704
CL797	-	-
RL797	YES	YES
RK795	YES	YES
CL795	-	-
RL795	YES	YES
RK796	YES	-
CL796	YES	-
RL796	-	-

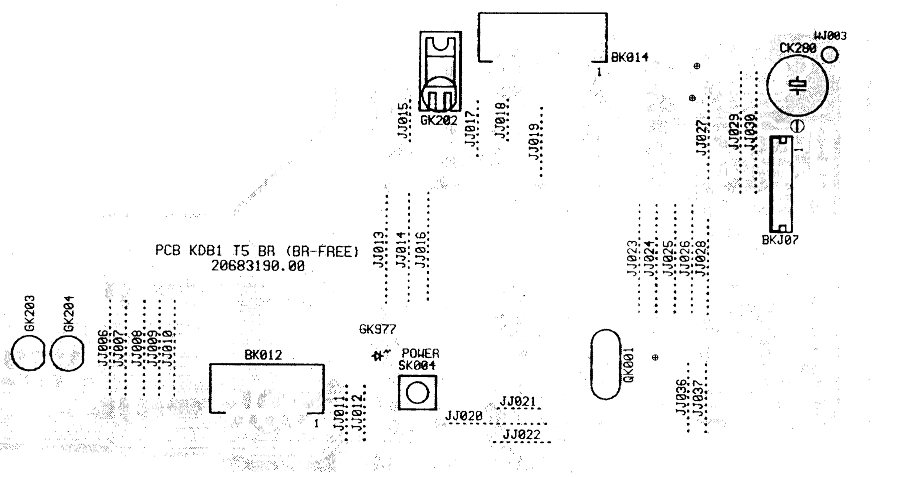
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON : VPH 6780 - VPH 6790)

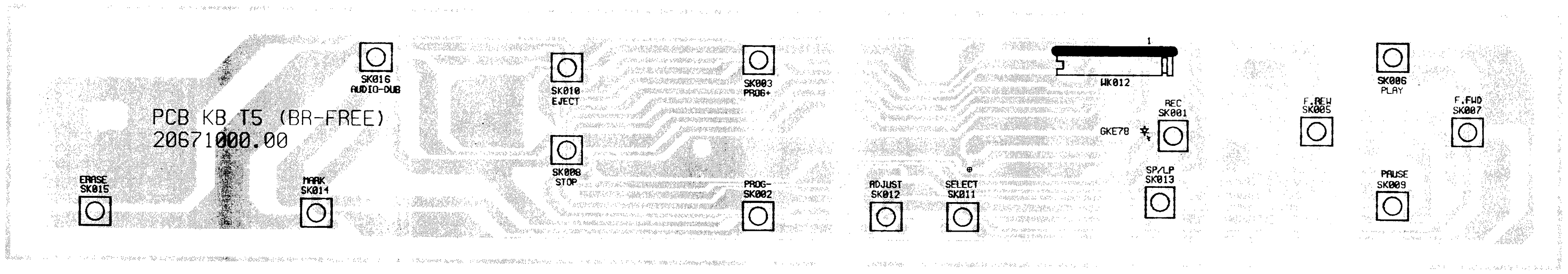

BE014
CE033
CE035
BE013
BE012
CE030
JE001
CE014
CE034
CE036
WJ001
CE016
CE039
CE013
CE017
CE031
CE015
CE040
BE010
HEADPHONE
MIC
PCB FJB2 A5000 AR
20448480.SA


BK706
PK701
WJ001
PK702
PK703
VIDEO IN
(YELLOW)
AUDIO LEFT
(WHITE)
AUDIO RIGHT
(RED)
PCB FCB T5 BR (BR-FREE)
20683190.00

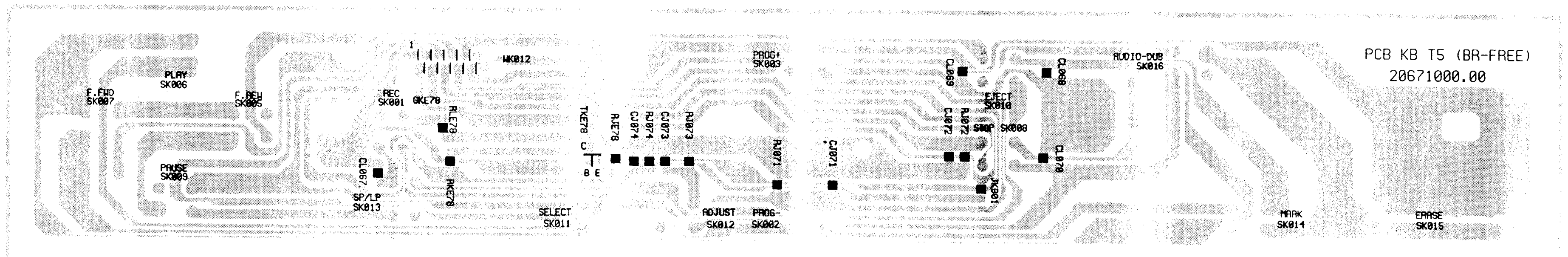
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

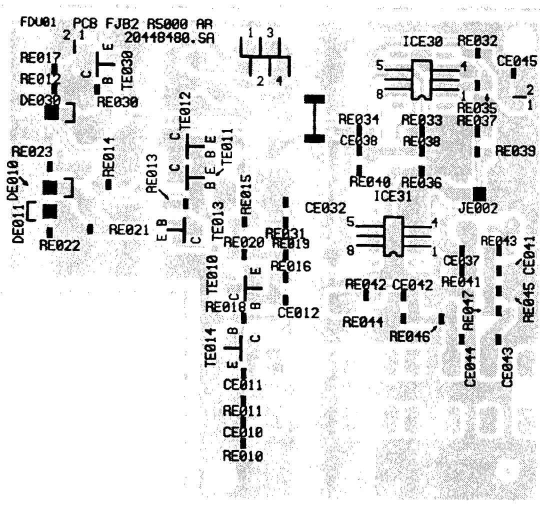

BK002
BA002
②
WJ002
ZK001
PK404
CK033
CL093
JJ033
JJ034
RL202
JJ031
JJ032
TK200
JJ001
JJ039
JJ002
JJ003
JJ004
JJ005
JJ038
LKF93
1 2 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 GKF01 25 26 27 28 29 30 31 32 33 34 35 36 37 38 41 42

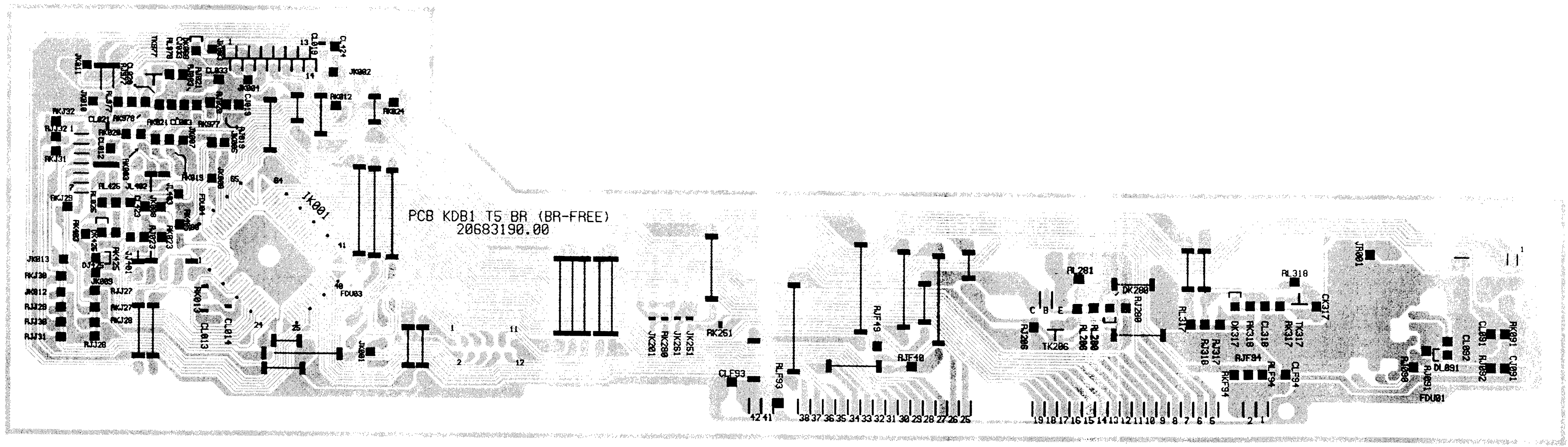

BK014
WJ003
CK200
GK202
JJ015
JJ017
JJ018
JJ019
JJ022
JJ029
JJ030
BKJ07
PCB KDB1 T5 BR (BR-FREE)
20683190.00
JJ013
JJ014
JJ016
JJ023
JJ024
JJ025
JJ026
JJ028
JJ035
GK203
GK204
JJ006
JJ007
JJ008
JJ009
JJ010
GK977
POWER
SK004
BK012
JJ011
JJ012
JJ020
JJ021
JJ022
QK001
JJ036
JJ037

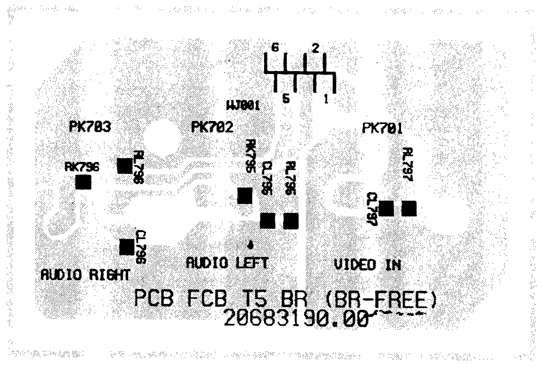

SK016
AUDIO-DUB
SK010
EJECT
SK003
PROG+
WK012
PCB KB T5 (BR-FREE)
20671000.00
REC
SK001
F.REW
SK005
SK006
PLAY
F.FWD
SK007
GKE70
SK008
STOP
ERASE
SK015
MARK
SK014
PROG-
SK002
ADJUST
SK012
SELECT
SK011
SP/LP
SK013
PAUSE
SK009

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


F.FWD
SK007
PLAY
SK006
F.REW
SK005
REC
SK001
GKE70
WK012
PROG+
SK003
PAUSE
SK009
SP/LP
SK013
SELECT
SK011
ADJUST
SK012
PROG-
SK002
AUDIO-DUB
SK016
EJECT
SK010
SK008
MARK
SK014
ERASE
SK015
PCB KB T5 (BR-FREE)
20671000.00

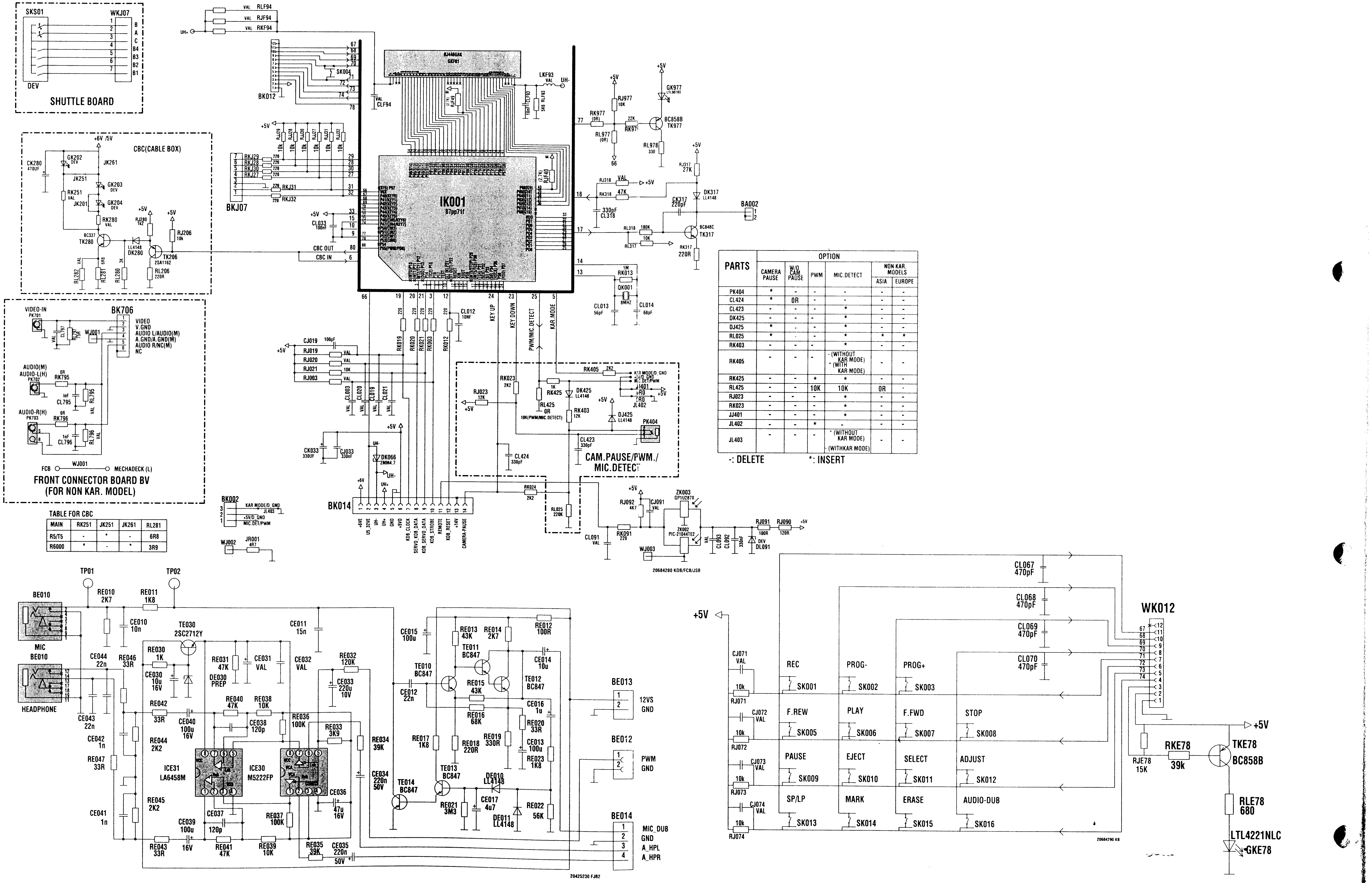

FDU01
PCB FJB2 A5000 AR
20448480.SA
ICE30
RE032
RE017
RE012
DE030
TE030
CE045
RE030
RE034
RE033
RE035
RE037
CE038
RE038
RE039
RE023
DE010
DE011
RE014
RE013
TE012
TE011
RE015
RE040
RE036
ICE31
JE002
CE032
RE021
RE022
TE013
TE010
RE020
RE031
RE019
RE016
CE037
RE043
CE041
RE042
CE042
RE041
RE045
RE018
CE012
RE044
RE046
TE014
CE044
CE043
CE011
RE011
CE010
RE010


PCB KDB1 T5 BR (BR-FREE)
20683190.00
JK001
FDU03
JK201
RK251
CLF93
RJF49
RJF48
RL201
DK200
TK200
RL316
RL317
FDU01
DL031
42 41 38 37 36 35 34 33 32 31 30 29 28 27 26 25
19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 2 1


WJ001
PK703
PK702
PK701
RK796
AUDIO RIGHT
AUDIO LEFT
VIDEO IN
PCB FCB T5 BR (BR-FREE)
20683190.00

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6780 - VPH 6790)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


SHUTTLE BOARD
SKS01
WKJ07
DEV
CBC(CABLE BOX)
FRONT CONNECTOR BOARD BV
(FOR NON KAR. MODEL)
FCB
WJ001
MECHADECK (L)
VIDEO-IN
BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
BK012
BKJ07
IK001
87pp71f
CBC OUT
CBC IN
KEY UP
KEY DOWN
PWM/MIC.DETECT
KAR.MODE
CAM.PAUSE/PWM./
MIC.DETECT
BK014
BK002
BA002
QK001
8MHZ
ZK003
ZK002
20684280 KDB/FCB/JS8
BE010
MIC
HEADPHONE
TP01
TP02
ICE31
LA6458M
ICE30
M5222FP
TE030
2SC2712Y
BE013
12VS
GND
BE012
PWM
GND
BE014
MIC_DUB
GND
A_HPL
A_HPR
20425230 FJB2
+5V
REC
SK001
PROG-
SK002
PROG+
SK003
F.REW
SK005
PLAY
SK006
F.FWD
SK007
STOP
SK008
PAUSE
SK009
EJECT
SK010
SELECT
SK011
ADJUST
SK012
SP/LP
SK013
MARK
SK014
ERASE
SK015
AUDIO-DUB
SK016
WK012
CL067
470pF
CL068
470pF
CL069
470pF
CL070
470pF
RKE78
39k
RJE78
15K
TKE78
BC858B
RLE78
680
LTL4221NLC
GKE78
20684290 K8

PARTS	OPTION					
	CAMERA PAUSE	W/O CAM. PAUSE	PWM	MIC.DETECT	NON KAR. MODELS	
					ASIA	EUROPE
PK404	*	-	-	-	-	-
CL424	*	OR	-	-	-	-
CL423	-	-	-	*	-	-
DK425	-	-	-	*	-	-
DJ425	*	-	-	*	-	-
RL025	*	-	-	*	*	*
RK403	-	-	-	*	-	-
RK405	-	-	-	- (WITHOUT KAR MODE) * (WITH KAR MODE)	-	-
RK425	-	-	*	*	-	-
RL425	-	-	10K	10K	OR	-
RJ023	-	-	-	*	-	-
RK023	-	-	-	*	-	-
JJ401	-	-	-	*	-	-
JL402	-	-	*	-	-	-
JL403	-	-	-	* (WITHOUT KAR MODE) - (WITHKAR MODE)	-	-

-: DELETE *: INSERT

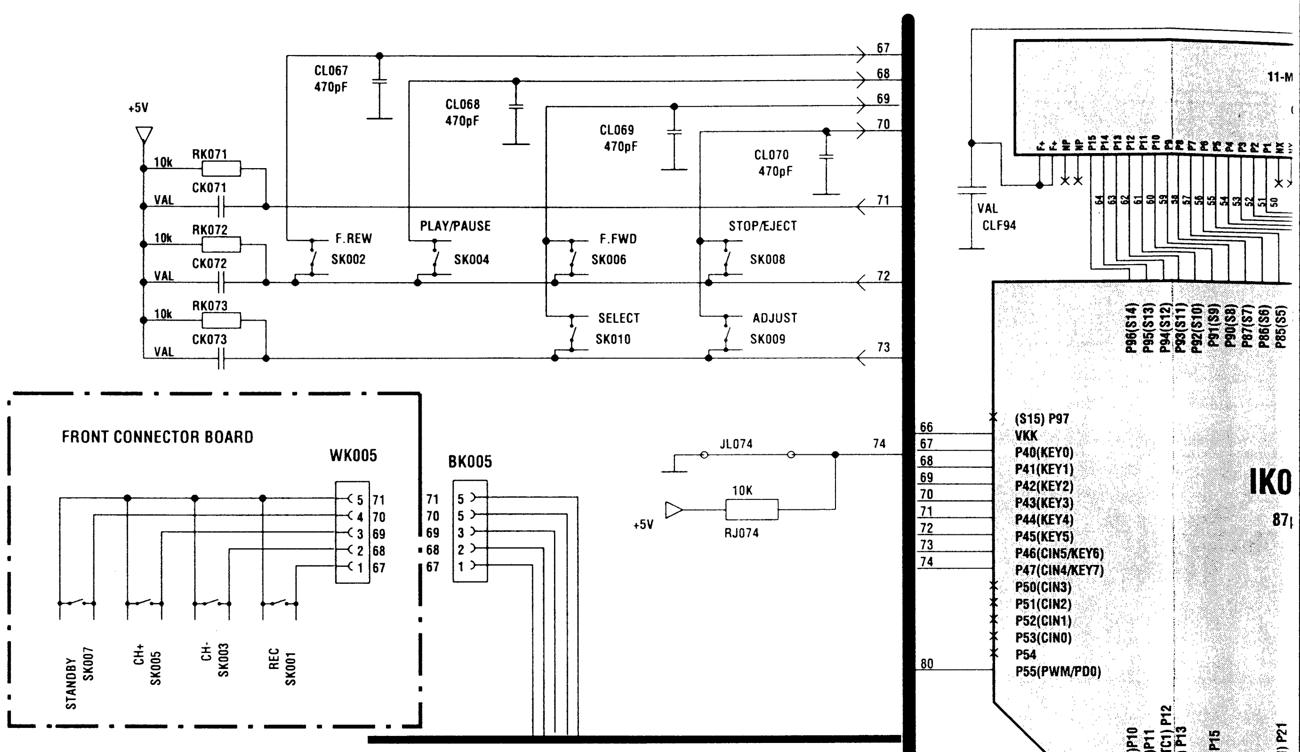
TABLE FOR CBC

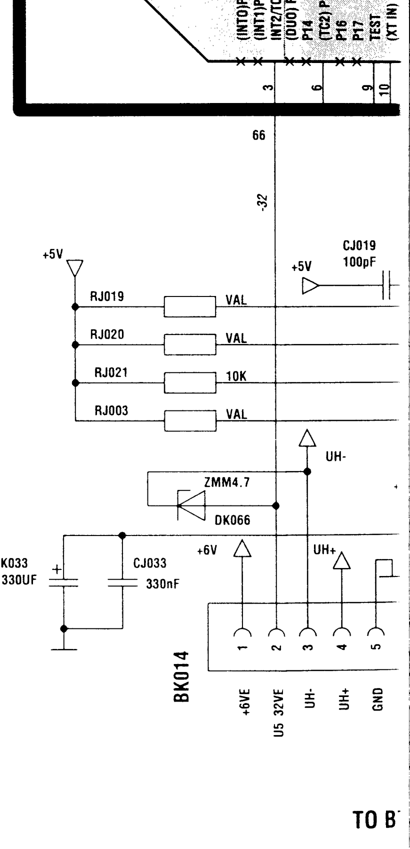
MAIN	RK251	JK251	JK261	RL281
R5/T5	-	*	-	6R8
R6000	*	-	*	3R9

Updated 09 / 97

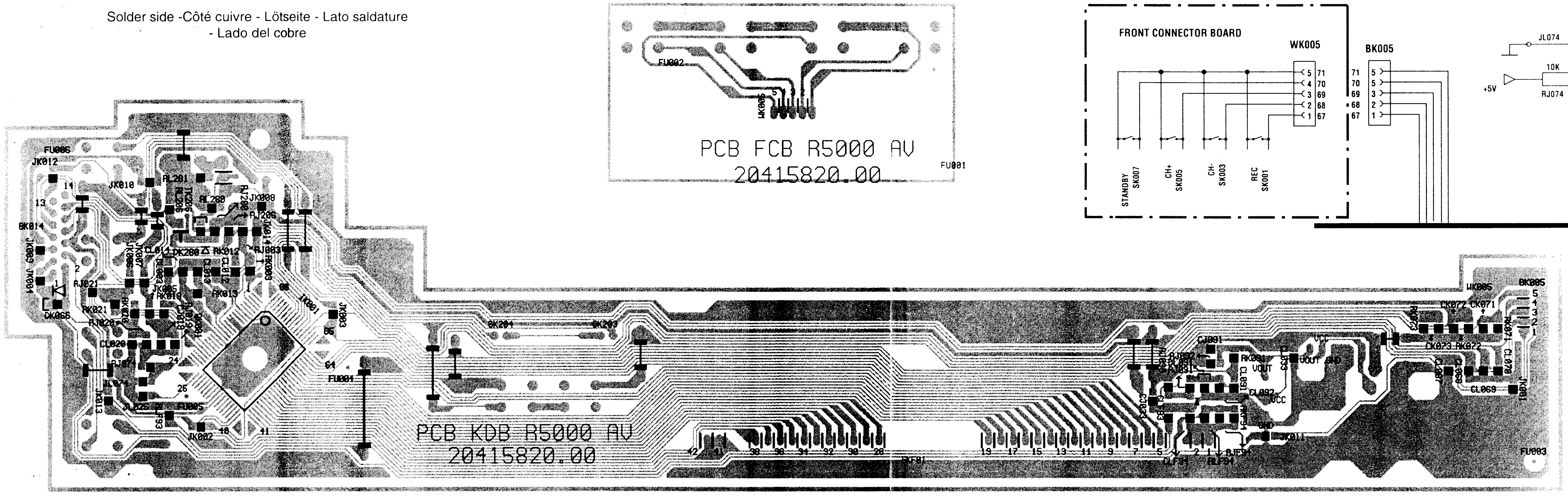
KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALI

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

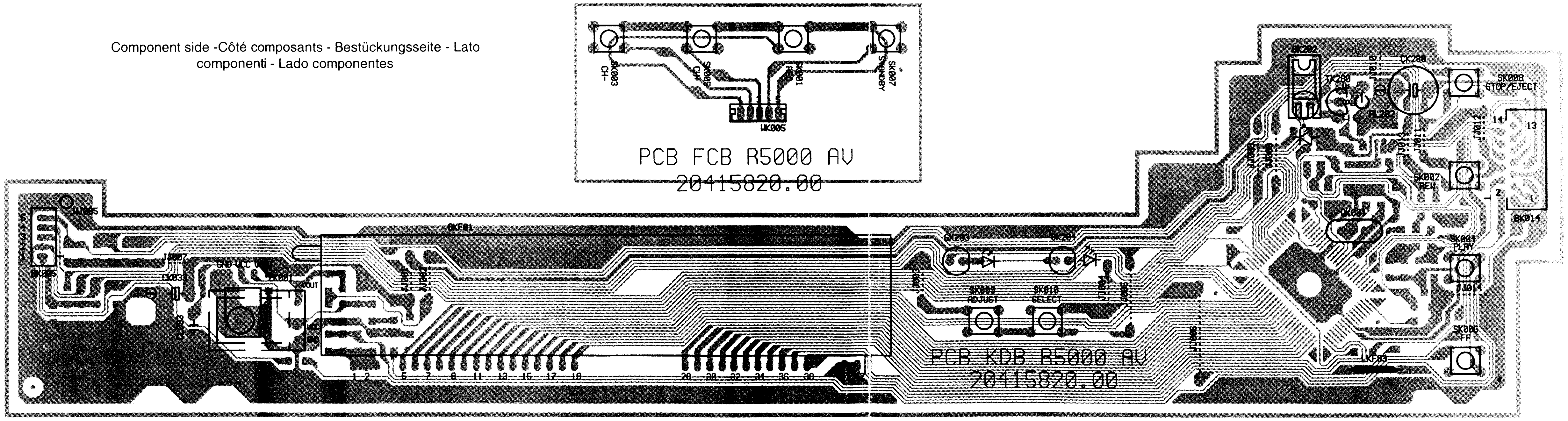

CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
F.REW SK002
PLAY/PAUSE SK004
F.FWD SK006
STOP/EJECT SK008
SELECT SK010
ADJUST SK009
FRONT CONNECTOR BOARD
WK005
BK005
STANDBY SK007
CH+ SK005
CH- SK003
REC SK001
JL074
10K RJ074
+5V
VAL CLF94
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PD0)
IK0
87


+5V
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
CJ019 100pF
ZMM4.7
DK066
UH-
UH+
+6V
CK033 330UF
CJ033 330nF
BK014
+6VE
U5 32VE
UH-
UH+
GND
TO B

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

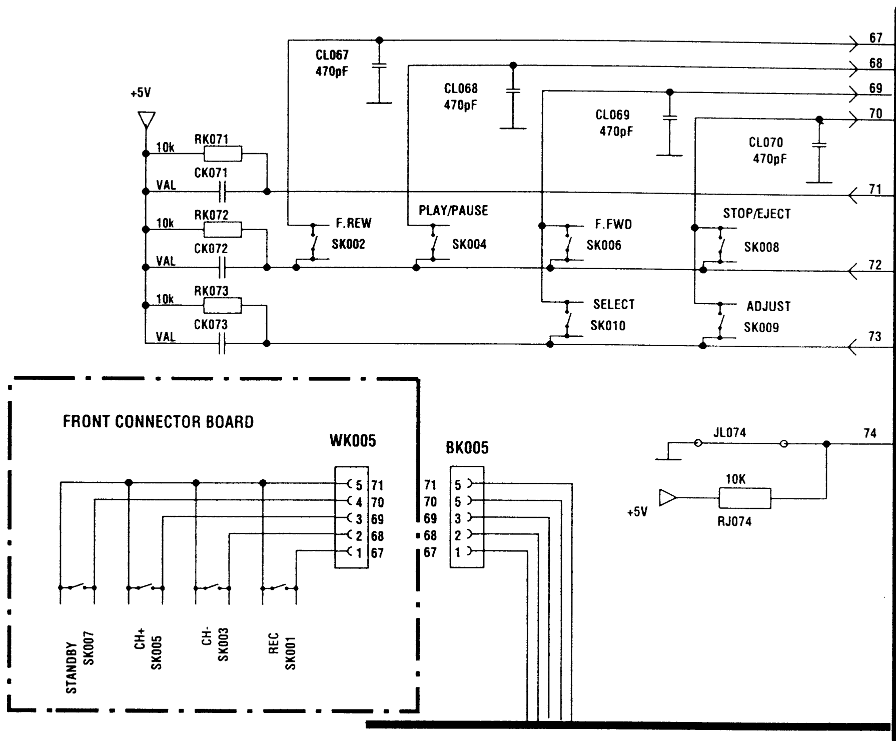

PCB FCB R5000 AV
20415820.00
PCB KDB R5000 AV
20415820.00

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

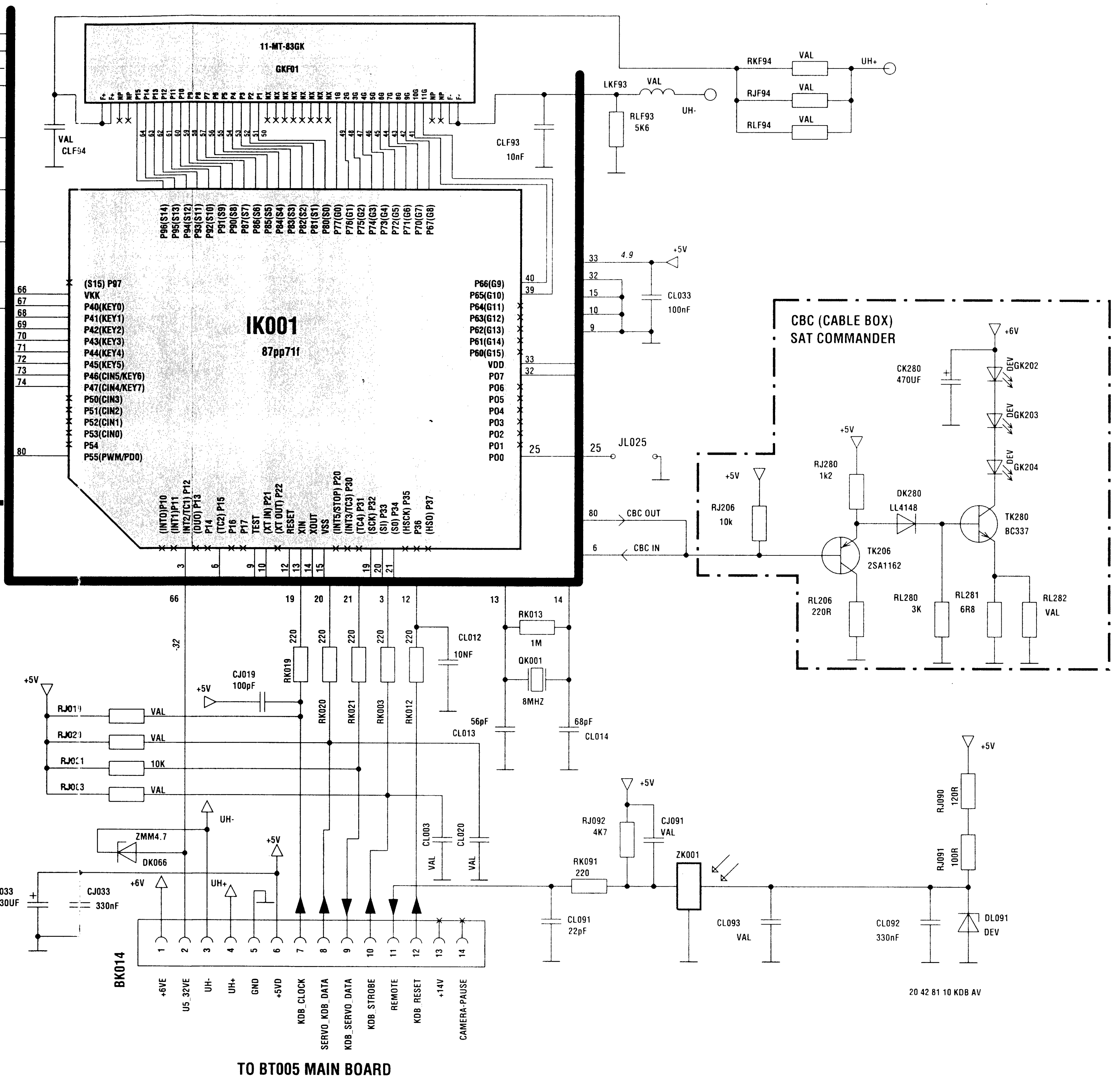

PCB FCB R5000 AV
20415820.00
PCB KDB R5000 AV
20415820.00
SK008 STOP/EJECT
SK002 REW
SK004 PLAY
SK006 FF
SK009 ADJUST
SK010 SELECT
BK014
WK005

AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6601)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

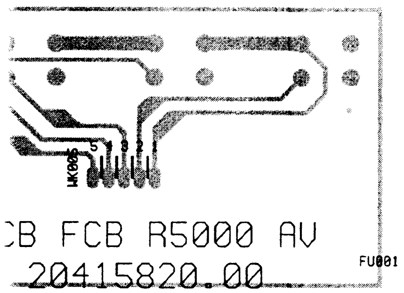


CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
RK073 10k
CK073 VAL
F.REW SK002
PLAY/PAUSE SK004
F.FWD SK006
STOP/EJECT SK008
SELECT SK010
ADJUST SK009
FRONT CONNECTOR BOARD
WK005
BK005
STANDBY SK007
CH+ SK005
CH- SK003
REC SK001
JL074
10K RJ074
+5V
67
68
69
70
71
72
73
74

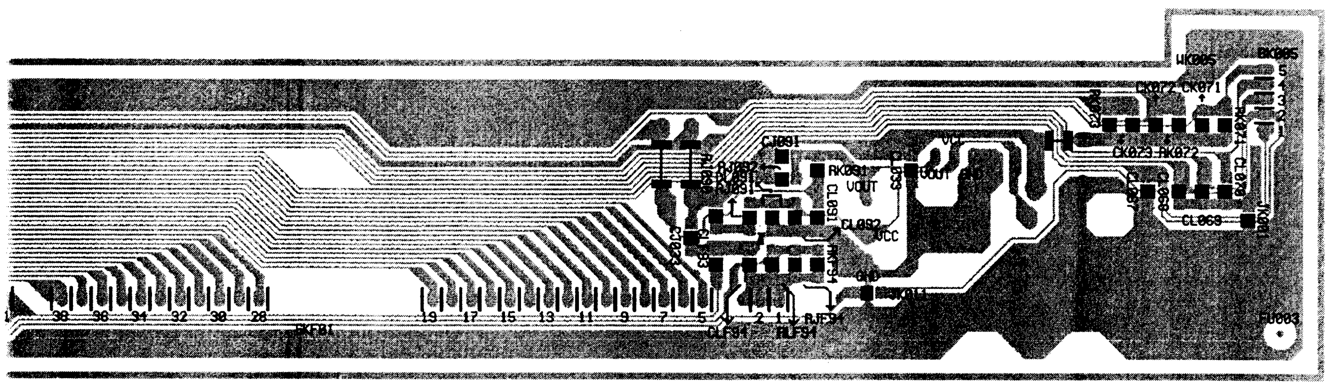


11-MT-83GK
GKF01
VAL CLF94
CLF93 10nF
LKF93 VAL
RLF93 5K6
UH-
RKF94 VAL
RJF94 VAL
RLF94 VAL
UH+
IK001
87pp711
P96(S14) P95(S13) P94(S12) P93(S11) P92(S10) P91(S9) P90(S8) P87(S7) P86(S6) P85(S5) P84(S4) P83(S3) P82(S2) P81(S1) P80(S0) P77(G0) P76(G1) P75(G2) P74(G3) P73(G4) P72(G5) P71(G6) P70(G7) P67(G8)
(S15) P97
VKK
P40(KEY0)
P41(KEY1)
P42(KEY2)
P43(KEY3)
P44(KEY4)
P45(KEY5)
P46(CIN5/KEY6)
P47(CIN4/KEY7)
P50(CIN3)
P51(CIN2)
P52(CIN1)
P53(CIN0)
P54
P55(PWM/PD0)
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
(INT0)P10 (INT1)P11 (INT2)(TC1) P12 (DUO) P13 P14 (TC2) P15 P16 P17 TEST (XT IN) P21 (XT OUT) P22 RESET XIN XOUT VSS (INT5/STOP) P20 (INT3/TC3) P30 (TC4) P31 (SCK) P32 (SI) P33 (SO) P34 (HSCK) P35 P36 (HSO) P37
4.9
+5V
CL033 100nF
JL025
CBC OUT
CBC IN
CBC (CABLE BOX)
SAT COMMANDER
+6V
CK280 470UF
GK202 DEV
GK203 DEV
GK204 DEV
+5V
RJ280 1k2
DK280 LL4148
TK280 BC337
RJ206 10k
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
RK013 1M
QK001 8MHZ
CL012 10NF
56pF CL013
68pF CL014
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CJ019 100pF
+5V
RJ011 VAL
RJ021 VAL
RJ031 10K
RJ013 VAL
ZMM4.7
DK066
UH-
UH+
+5V
CL003 VAL
CL020 VAL
CK033 330UF
CJ033 330nF
+6V
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
+5V
RJ092 4K7
CJ091 VAL
RK091 220
ZK001
CL091 22pF
CL093 VAL
CL092 330nF
RJ090 120R
RJ091 100R
DL091 DEV
+5V

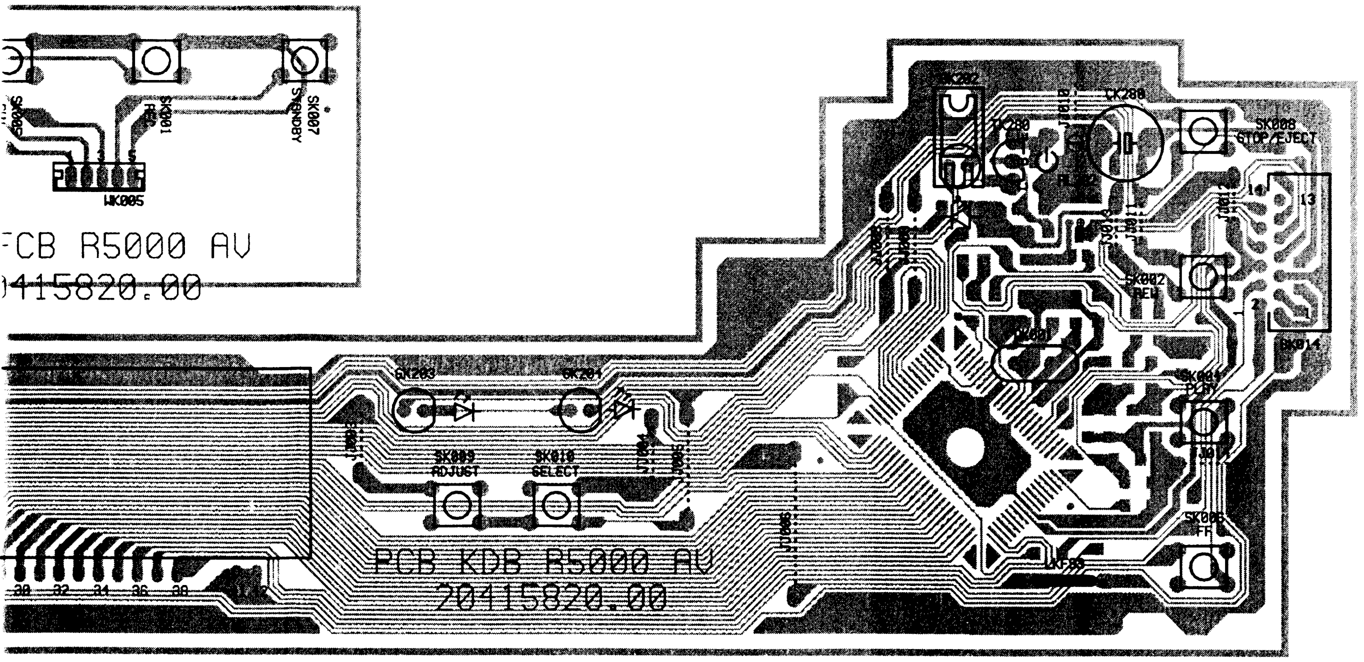
20 42 81 10 KDB AV



WK005
CB FCB R5000 AV
20415820.00
FU001



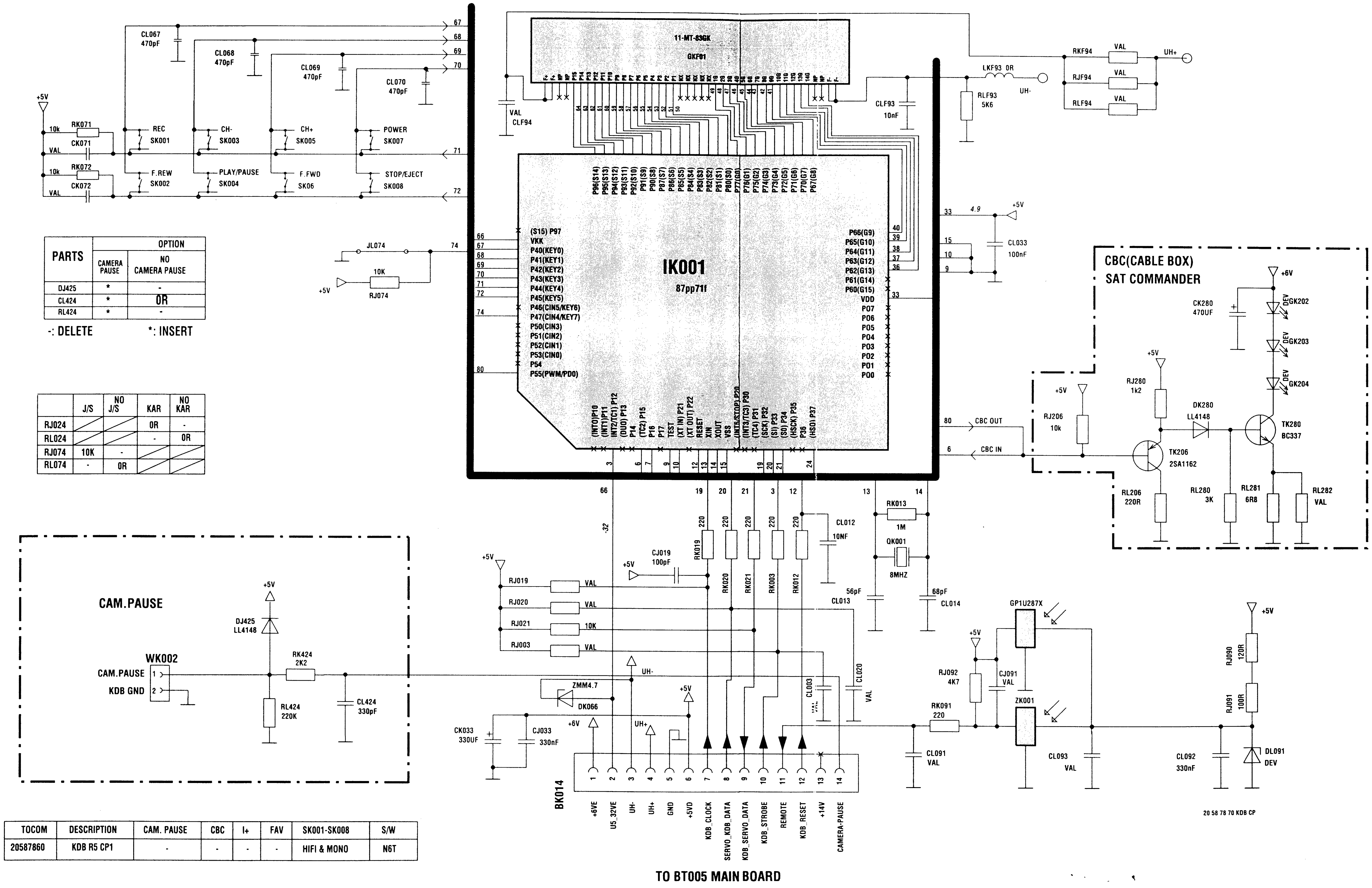
WK005
BK005
CJ001
VOUT
CL082
VCC
GND
CL069
RLF94
RJF94
CLF94
FU003



SK007 STANDBY
WK005
FCB R5000 AV
20415820.00
CK280
TK280
SK008 STOP/EJECT
SK002 REW
GK203
GK204
SK009 ADJUST
SK010 SELECT
BK014
SK001 PLAY
PCB KDB R5000 AV
20415820.00

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 7081)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
REC SK001
F.REW SK002
CH- SK003
PLAY/PAUSE SK004
CH+ SK005
F.FWD SK06
POWER SK007
STOP/EJECT SK008
JL074
RJ074 10K
11-MT-83GK
GKF01
IK001
87pp71f
VAL CLF94
CLF93 10nF
LKF93 0R
RLF93 5K6
RKF94 VAL
RJF94 VAL
RLF94 VAL
UH+
UH-
CL033 100nF
CBC(CABLE BOX)
SAT COMMANDER
CK280 470UF
GK202 DEV
GK203 DEV
GK204 DEV
RJ280 1k2
DK280 LL4148
TK280 BC337
RJ206 10k
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
CBC OUT
CBC IN
RK013 1M
QK001 8MHZ
CL012 10NF
CL013 56pF
CL014 68pF
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
CJ019 100pF
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
CAM.PAUSE
DJ425 LL4148
RK424 2K2
RL424 220K
CL424 330pF
WK002
CAM.PAUSE
KDB GND
ZMM4.7
DK066
CK033 330UF
CJ033 330nF
CL003
CL020 VAL
GP1U287X
ZK001
RJ092 4K7
CJ091 VAL
RK091 220
CL091 VAL
CL093 VAL
CL092 330nF
RJ090 120R
RJ091 100R
DL091 DEV
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
20 58 78 70 KDB CP

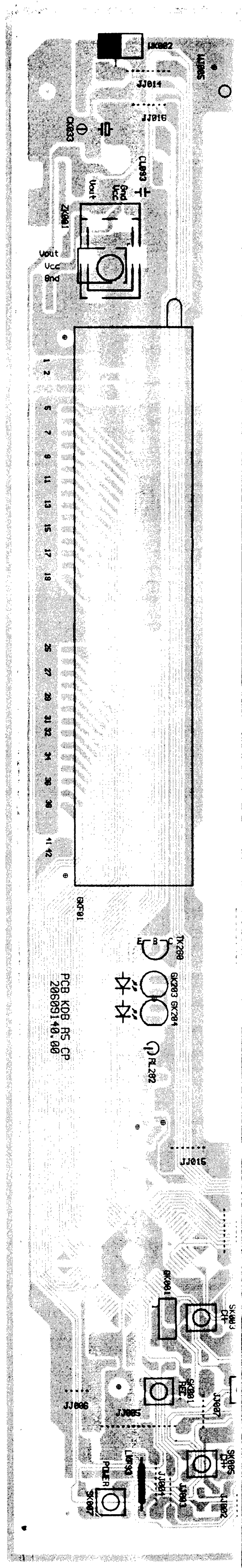
PARTS	OPTION	
	CAMERA PAUSE	NO CAMERA PAUSE
DJ425	*	-
CL424	*	0R
RL424	*	-

-: DELETE *: INSERT

	J/S	NO J/S	KAR	NO KAR
RJ024			0R	-
RL024			-	0R
RJ074	10K	-		
RL074	-	0R		

TOCOM	DESCRIPTION	CAM. PAUSE	CBC	I+	FAV	SK001-SK008	S/W
20587860	KDB R5 CP1	-	-	-	-	HIFI & MONO	N6T

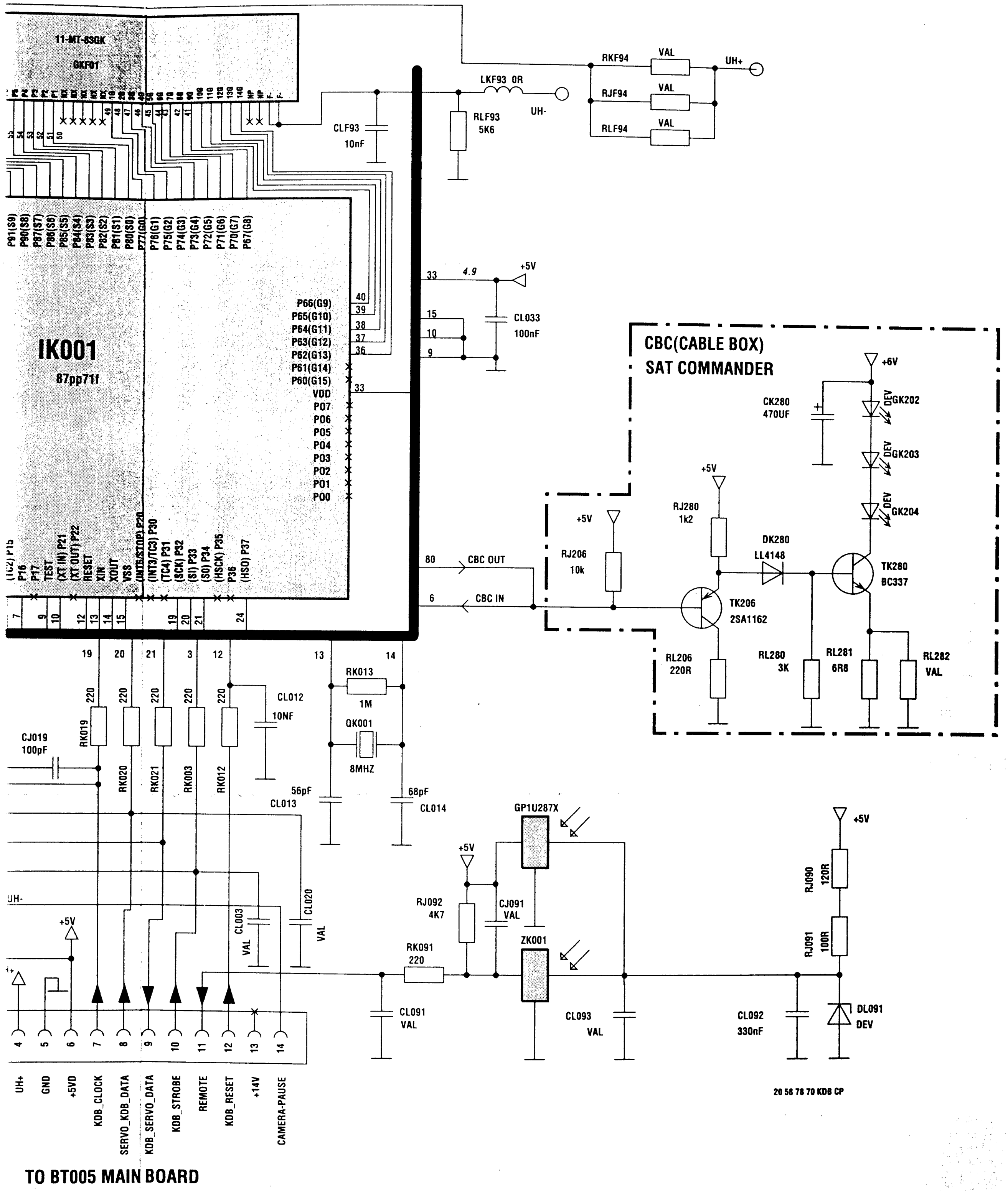
Component side -Côté composants -
componenti - Lado co



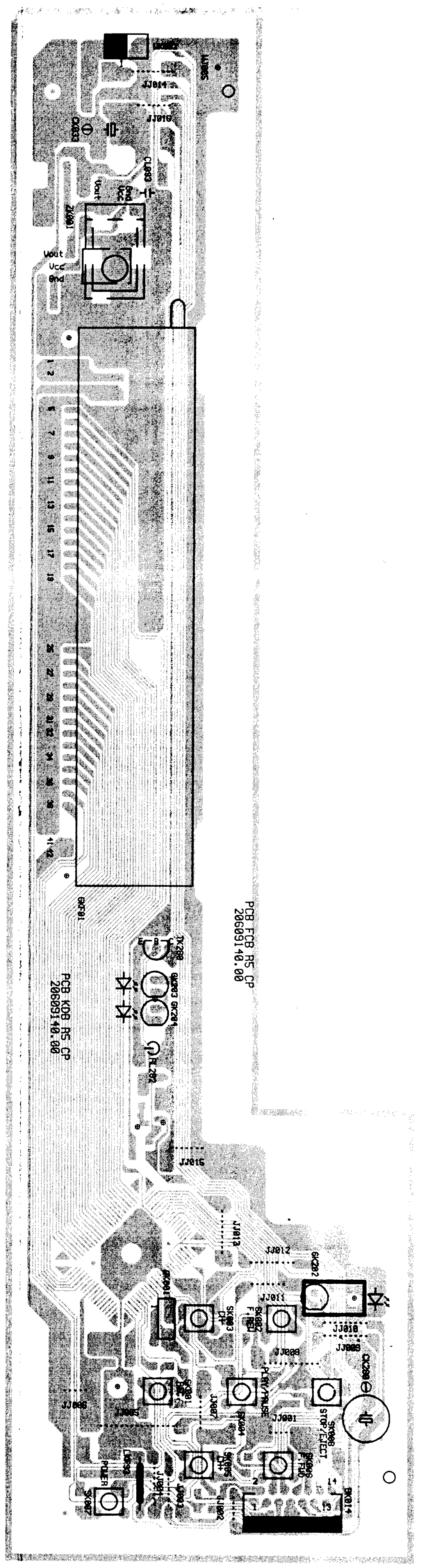
PCB KDB R5 CP
20869140.00
JJ014
JJ016
JJ015
JJ005
JJ006

FFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY -

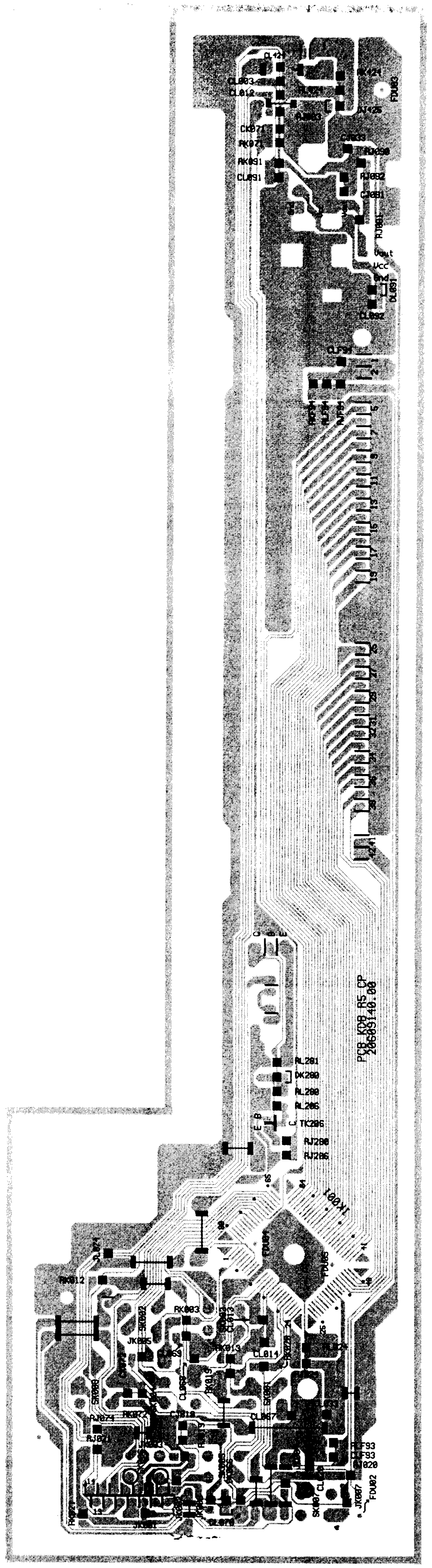
SQUEMA


11-MT-03GK
GKF01
IK001
87pp71f
P66(G9)
P65(G10)
P64(G11)
P63(G12)
P62(G13)
P61(G14)
P60(G15)
VDD
P07
P06
P05
P04
P03
P02
P01
P00
TEST
XT(IN) P21
XT(OUT) P22
RESET
XIN
XOUT
VSS
(INT3/TC3) P30
(TC4) P31
(SCK) P32
(SI) P33
(SO) P34
(HSCK) P35
P36
(HSO) P37
RKF94
RJF94
RLF94
VAL
UH+
UH-
LKF93 0R
RLF93
5K6
CLF93
10nF
+5V
4.9
CL033
100nF
CBC(CABLE BOX)
SAT COMMANDER
+6V
CK280
470UF
DEV
GK202
GK203
GK204
RJ280
1k2
DK280
LL4148
TK280
BC337
RJ206
10k
TK206
2SA1162
CBC OUT
CBC IN
RL206
220R
RL280
3K
RL281
6R8
RL282
RK013
1M
QK001
8MHZ
CL012
10NF
CJ019
100pF
RK019
RK020
RK021
RK003
RK012
220
56pF
CL013
68pF
CL014
CL003
CL020
GP1U287X
RJ092
4K7
CJ091
RK091
ZK001
CL091
CL093
RJ090
120R
RJ091
100R
CL092
330nF
DL091
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
20 58 78 70 KDB CP

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

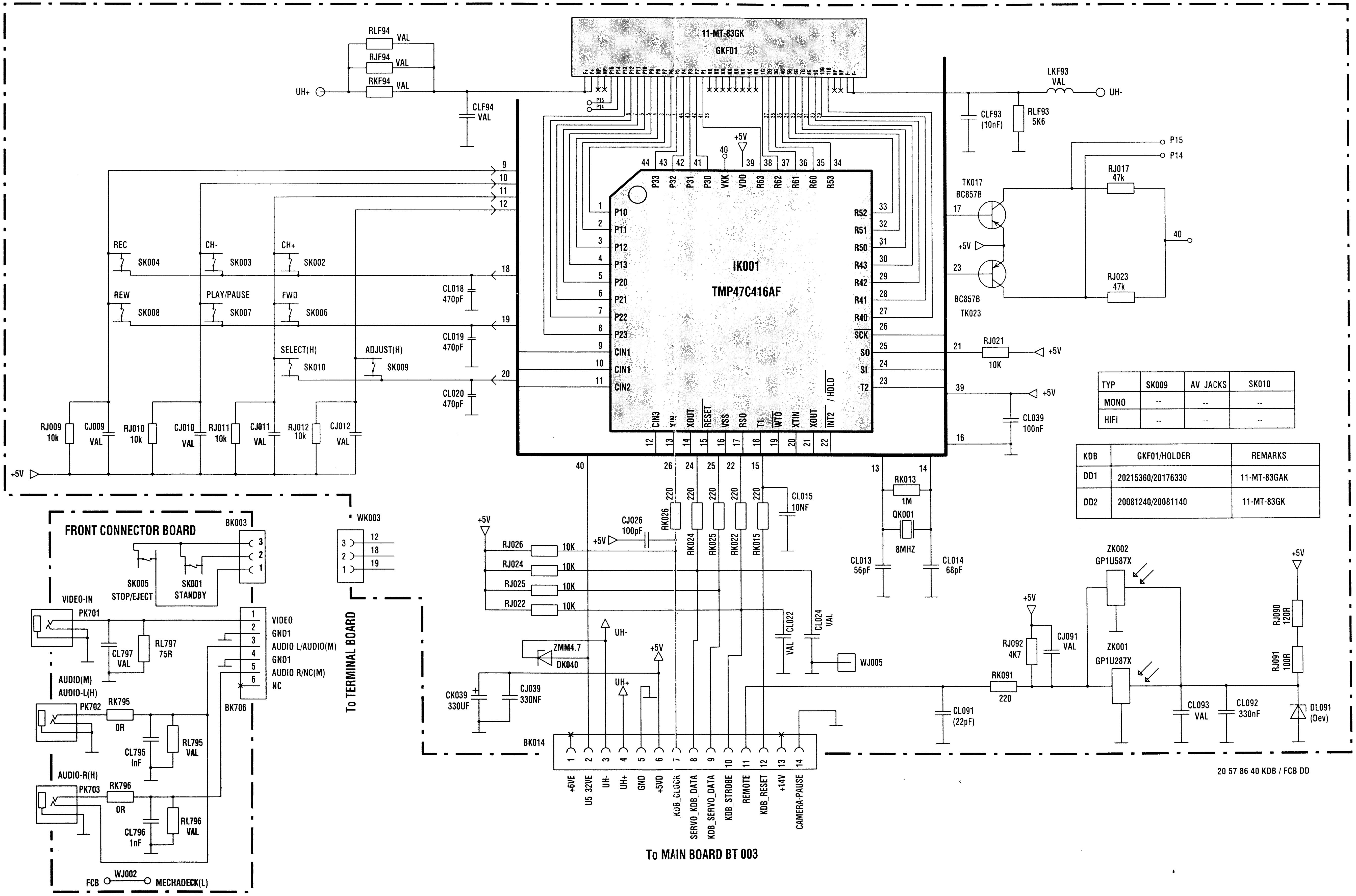

PCB FCB R5 CP
2068914 0.00
PCB KDB R5 CP
2068914 0.00
Vout
Ucc
Gnd
JJ014
JJ015
JJ012
JJ011
JJ010
JJ009
JJ008
GK202
POWER
STOP/EJECT

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


PCB KDB R5 CP
2068914 0.00
RL281
DK280
RL280
RL206
TK206
RJ280
RJ206
IK001
RK012
RK003
CL014
RLF93
CLF93

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (TELEFUNKEN: T 8006 HIFI)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA

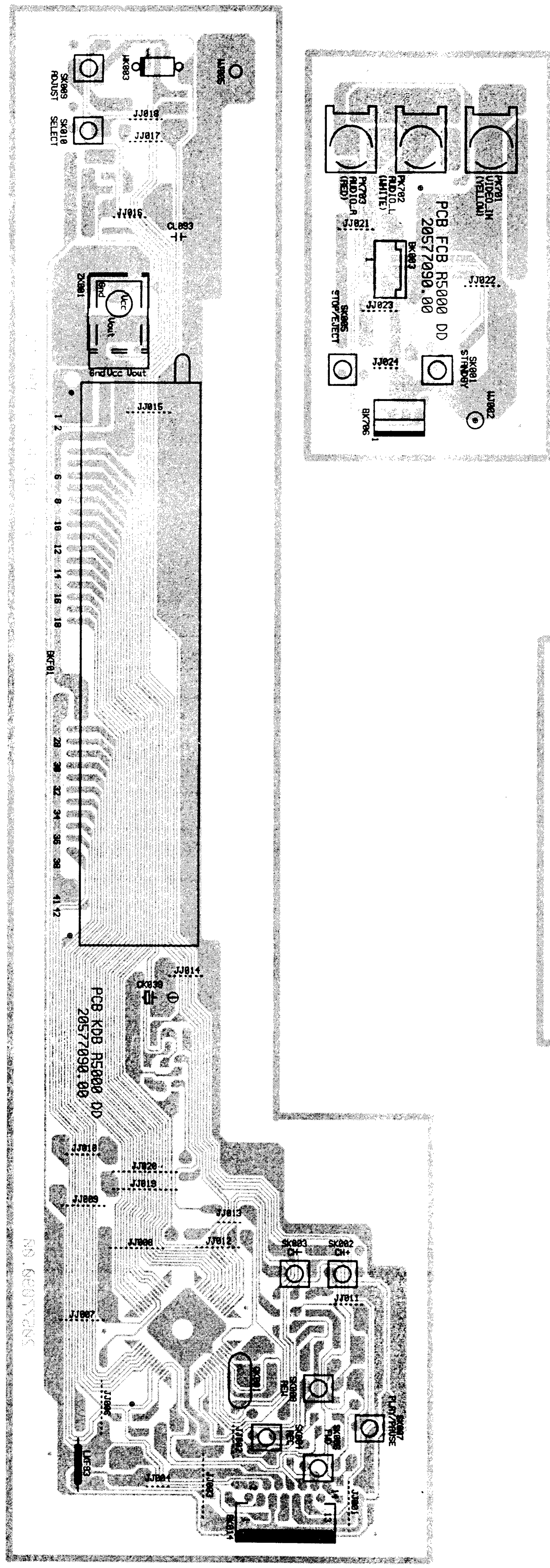

11-MT-83GK
GKF01
RLF94 VAL
RJF94 VAL
RKF94 VAL
UH+
CLF94 VAL
LKF93 VAL
UH-
CLF93 (10nF)
RLF93 5K6
P15
P14
RJ017 47k
TK017 BC857B
+5V
40
RJ023 47k
BC857B TK023
IK001
TMP47C416AF
P33 P32 P31 P30 VKK VDD R63 R62 R61 R60 R53
P10 P11 P12 P13 P20 P21 P22 P23 CIN1 CIN1 CIN2
R52 R51 R50 R43 R42 R41 R40 SCK SO SI T2
CIN3 XIN XOUT RESET VSS RSO T1 WTO XTIN XOUT INT2 /HOLD
RJ021 10K
CL039 100nF
REC SK004
CH- SK003
CH+ SK002
REW SK008
PLAY/PAUSE SK007
FWD SK006
SELECT(H) SK010
ADJUST(H) SK009
CL018 470pF
CL019 470pF
CL020 470pF
RJ009 10k
CJ009 VAL
RJ010 10k
CJ010 VAL
RJ011 10k
CJ011 VAL
RJ012 10k
CJ012 VAL
+5V
FRONT CONNECTOR BOARD
BK003
SK005 STOP/EJECT
SK001 STANDBY
VIDEO-IN
PK701
CL797 VAL
RL797 75R
AUDIO(M)
AUDIO-L(H)
PK702
RK795 0R
CL795 1nF
RL795 VAL
AUDIO-R(H)
PK703
RK796 0R
CL796 1nF
RL796 VAL
BK706
VIDEO
GND1
AUDIO L/AUDIO(M)
GND1
AUDIO R/NC(M)
NC
FCB
WJ002
MECHADECK(L)
WK003
To TERMINAL BOARD
RJ026 10K
RJ024 10K
RJ025 10K
RJ022 10K
CJ026 100pF
RK026 220
RK024 220
RK025 220
RK022 220
RK015 220
CL015 10NF
CL022 VAL
CL024 VAL
WJ005
ZMM4.7
DK040
CK039 330UF
CJ039 330NF
RK013 1M
QK001 8MHZ
CL013 56pF
CL014 68pF
ZK002 GP1U587X
ZK001 GP1U287X
RJ092 4K7
CJ091 VAL
RK091 220
CL091 (22pF)
CL093 VAL
CL092 330nF
RJ090 120R
RJ091 100R
DL091 (Dev)
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
To MAIN BOARD BT 003
20 57 86 40 KDB / FCB DD

TYP	SK009	AV_JACKS	SK010
MONO	--	--	--
HIFI	--	--	--

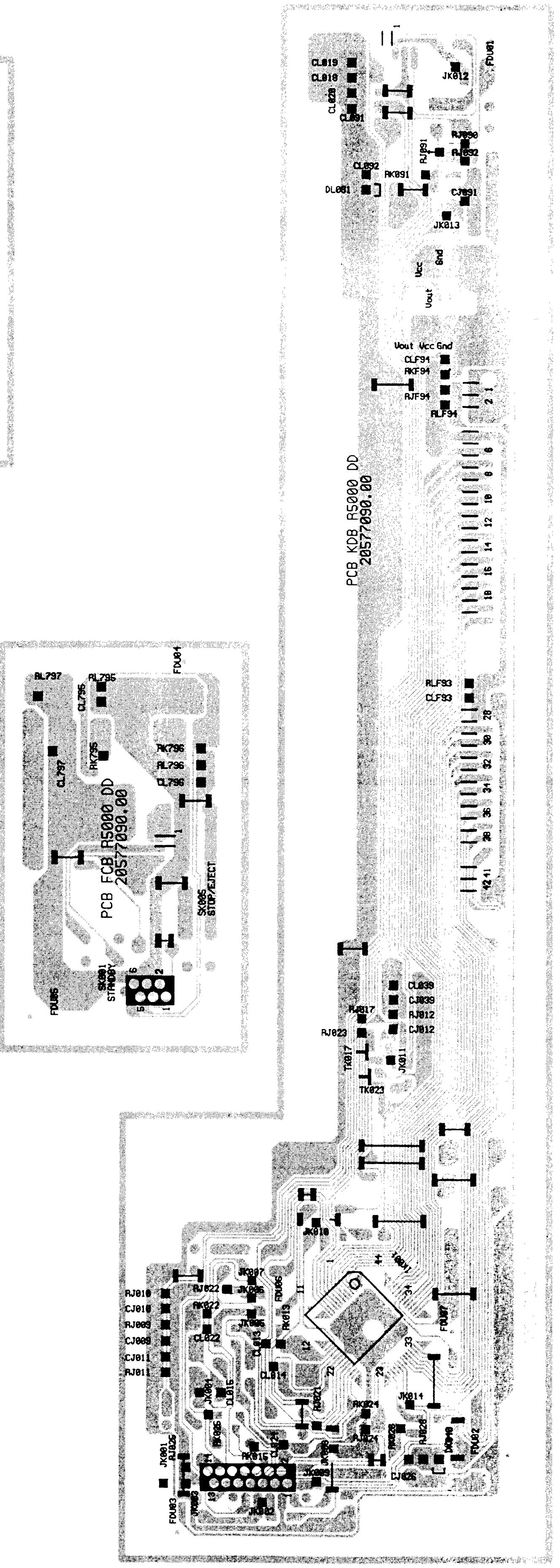
KDB	GKF01/HOLDER	REMARKS
DD1	20215360/20176330	11-MT-83GAK
DD2	20081240/20081140	11-MT-83GK

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(TELEFUNKEN : T 8006 HIFI)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

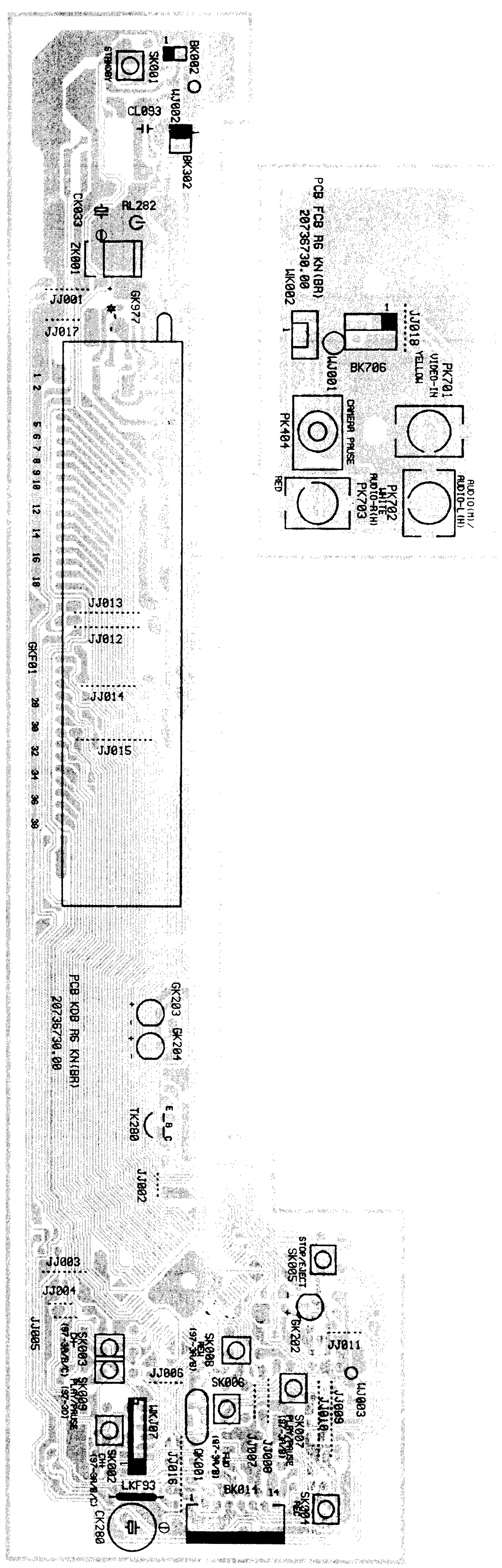

PCB KDB R5000 DD
20577090.00
PCB FCB R5000 DD
20577090.00
SK005 STOP/EJECT
SK001 STANDBY
PK703 AUDIO-R (RED)
PK702 AUDIO-L (WHITE)
PK701 VIDEO-IN (YELLOW)
SK002 CH-
SK003 CH+

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

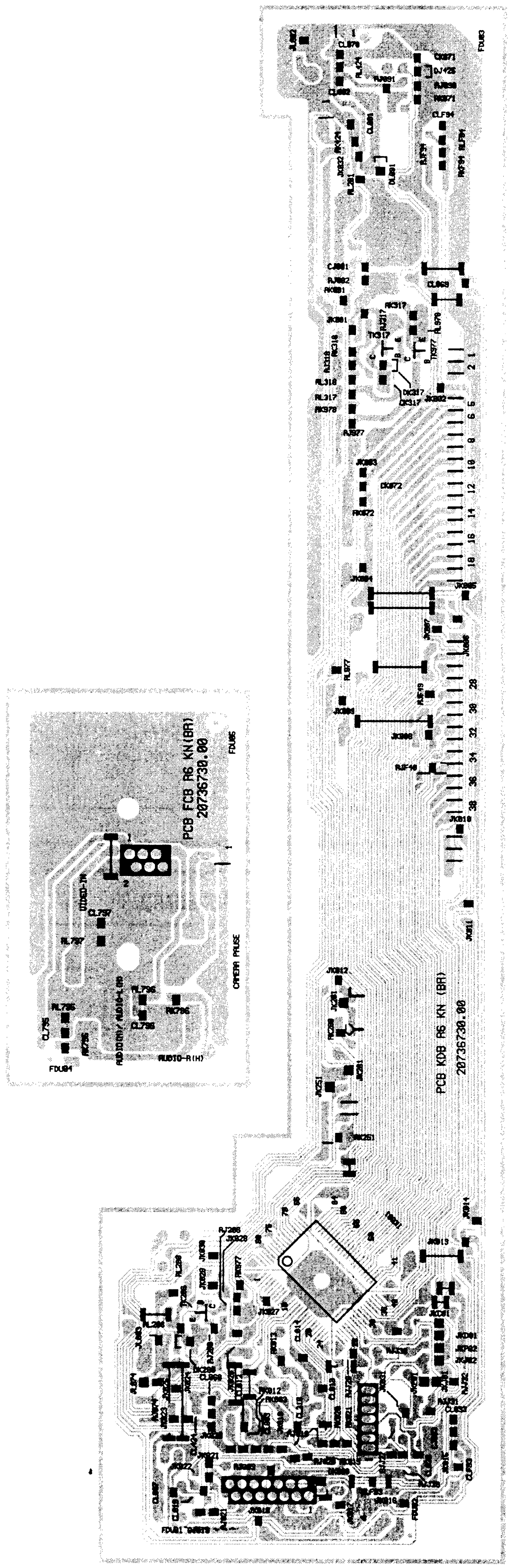

PCB KDB R5000 DD
20577090.00
PCB FCB R5000 DD
20577090.00
SK005 STOP/EJECT
SK001 STANDBY
Vout Vcc Gnd

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(SABA : VR 8083 H)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

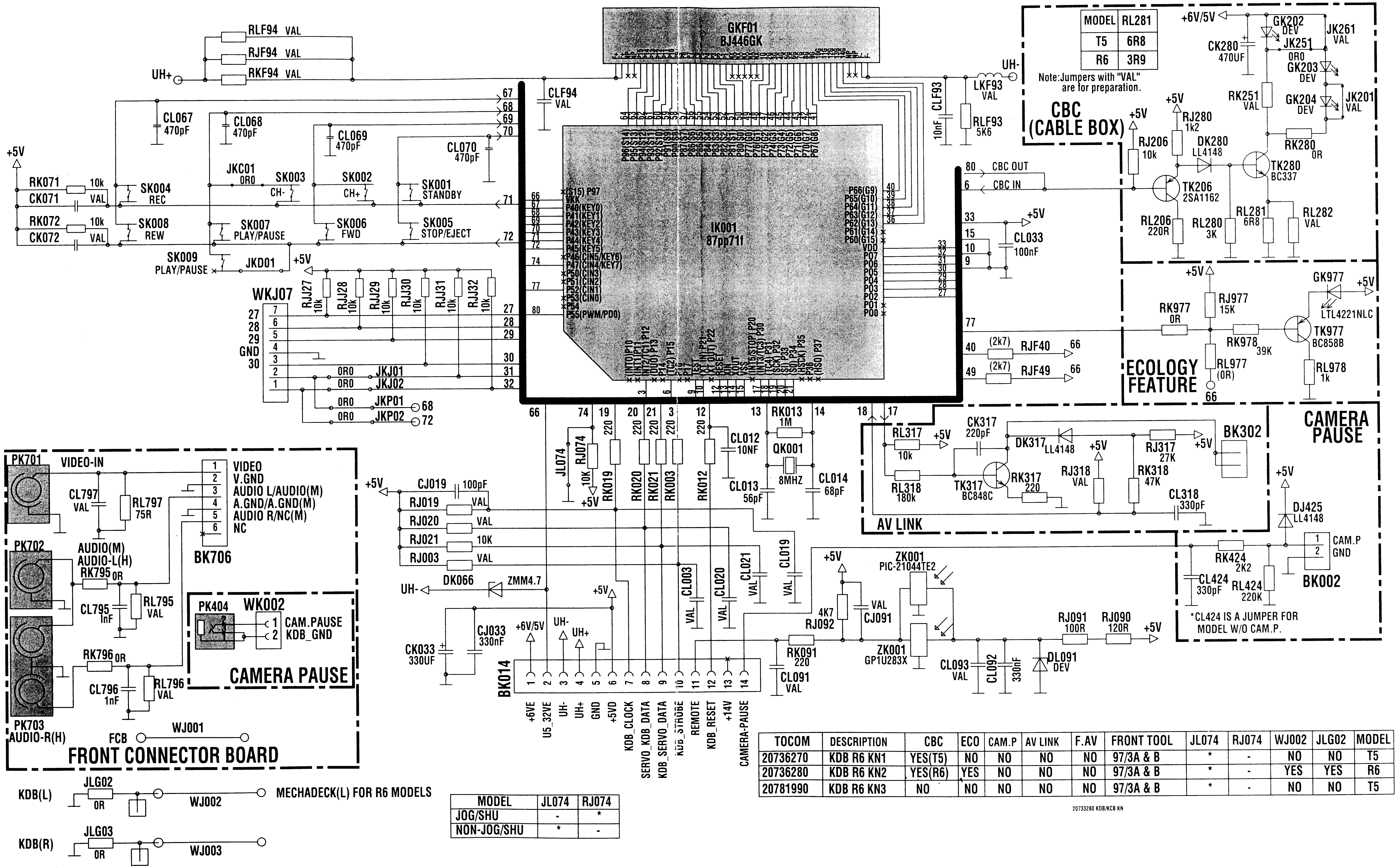

PCB KDB R6 KN(BR)
20736730.00
PCB FCB R6 KN(BR)
20736730.00
PK701 VIDEO-IN YELLOW
PK702 WHITE AUDIO-R(H)
PK703
PK404 RED
CAMERA PAUSE
SK005 STOP/EJECT
LKF93
CK280

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


PCB KDB R6 KN (BR)
20736730.00
PCB FCB R6 KN(BR)
20736730.00
CAMERA PAUSE
AUDIO-R(H)

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 8083 H)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


GKF01
BJ446GK
IK001
87pp71I
RLF94 VAL
RJF94 VAL
RKF94 VAL
UH+
UH-
CLF94 VAL
LKF93 VAL
CLF93 10nF
RLF93 5K6
CL067 470pF
CL068 470pF
CL069 470pF
CL070 470pF
+5V
RK071 10k
CK071 VAL
RK072 10k
CK072 VAL
SK004 REC
SK008 REW
JKC01 0R0
SK003 CH-
SK002 CH+
SK001 STANDBY
SK007 PLAY/PAUSE
SK006 FWD
SK005 STOP/EJECT
SK009 PLAY/PAUSE
JKD01
WKJ07
RJ027 10k
RJ028 10k
RJ029 10k
RJ030 10k
RJ031 10k
RJ032 10k
GND
JKJ01 0R0
JKJ02 0R0
JKP01 0R0
JKP02 0R0
CBC OUT
CBC IN
CL033 100nF
RJF40 (2k7)
RJF49 (2k7)
CBC (CABLE BOX)
+6V/5V
CK280 470UF
GK202 DEV
JK251 0R0
JK261 VAL
GK203 DEV
GK204 DEV
JK201 VAL
RK251 VAL
RJ280 1k2
RJ206 10k
DK280 LL4148
RK280 0R
TK280 BC337
TK206 2SA1162
RL206 220R
RL280 3K
RL281 6R8
RL282 VAL
ECOLOGY FEATURE
RK977 0R
RJ977 15K
RK978 39K
RL977 (0R)
RL978 1k
GK977 LTL4221NLC
TK977 BC858B
CAMERA PAUSE
BK302
CK317 220pF
DK317 LL4148
RL317 10k
RJ317 27K
RL318 180k
TK317 BC848C
RK317 220
RJ318 VAL
RK318 47K
CL318 330pF
AV LINK
DJ425 LL4148
RK424 2K2
CL424 330pF
RL424 220K
BK002
CAM.P
GND
RK013 1M
QK001 8MHZ
CL012 10NF
CL013 56pF
CL014 68pF
JL074
RJ074 10k
RK019 220
RK020 220
RK021 220
RK003 220
RK012 220
PK701 VIDEO-IN
CL797 VAL
RL797 75R
PK702 AUDIO(M) AUDIO-L(H)
RK795 0R
CL795 1nF
RL795 VAL
RK796 0R
CL796 1nF
RL796 VAL
PK703 AUDIO-R(H)
FCB
WJ001
FRONT CONNECTOR BOARD
BK706
VIDEO
V.GND
AUDIO L/AUDIO(M)
A.GND/A.GND(M)
AUDIO R/NC(M)
NC
PK404
WK002
CAM.PAUSE
KDB_GND
CAMERA PAUSE
CJ019 100pF
RJ019 VAL
RJ020 VAL
RJ021 10K
RJ003 VAL
DK066 ZMM4.7
CK033 330UF
CJ033 330nF
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
CL003 VAL
CL020 VAL
CL021 VAL
CL019 VAL
ZK001 PIC-21044TE2
RJ092 4K7
CJ091 VAL
ZK001 GP1U283X
RK091 220
CL091 VAL
CL093 VAL
CL092 33nF
DL091 DEV
RJ091 100R
RJ090 120R
KDB(L)
JLG02 0R
WJ002
MECHADECK(L) FOR R6 MODELS
KDB(R)
JLG03 0R
WJ003

MODEL	RL281
T5	6R8
R6	3R9

Note:Jumpers with "VAL" are for preparation.

*CL424 IS A JUMPER FOR MODEL W/O CAM.P.

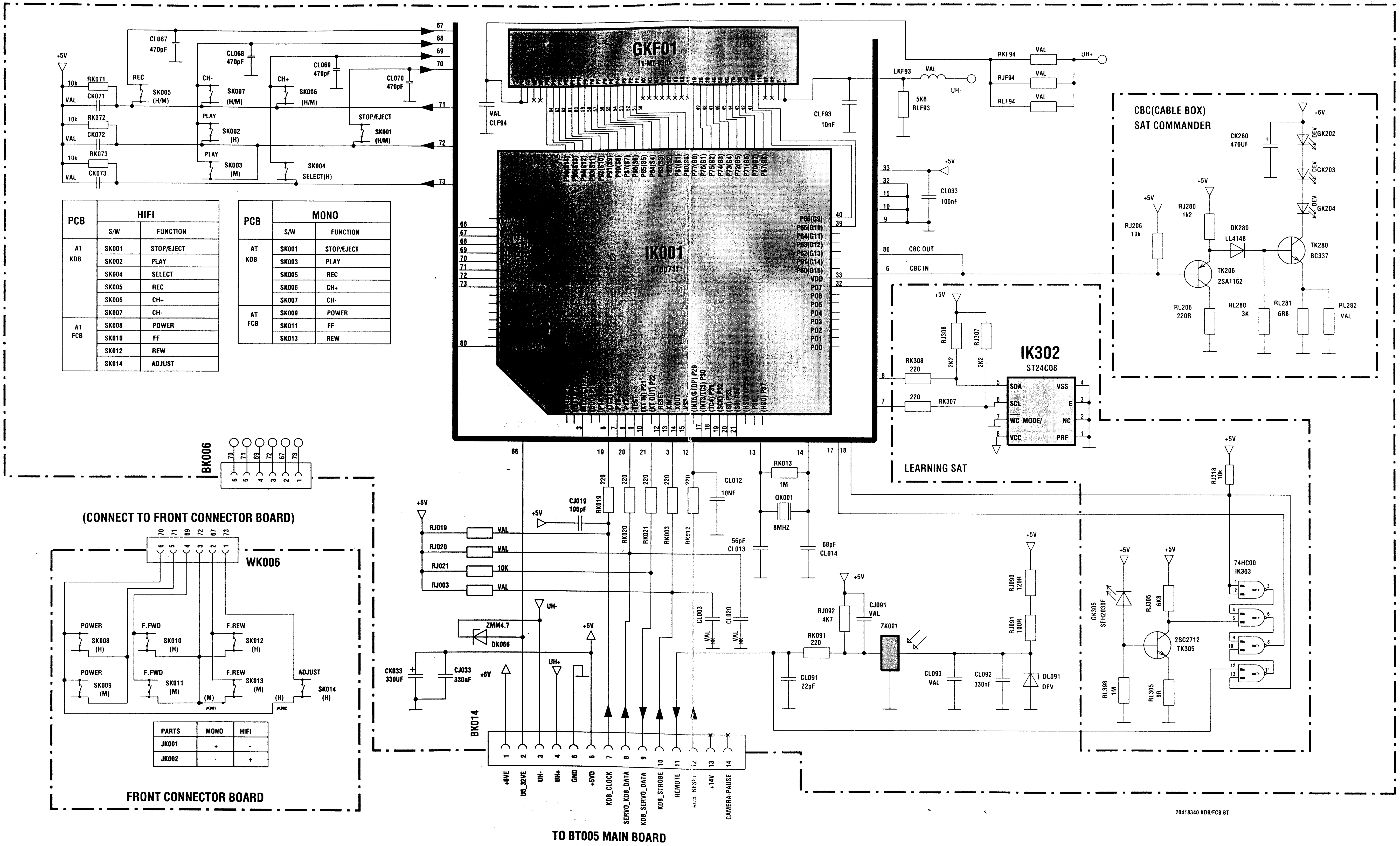
MODEL	JL074	RJ074
JOG/SHU	-	*
NON-JOG/SHU	*	-

TOCOM	DESCRIPTION	CBC	ECO	CAM.P	AV LINK	F.AV	FRONT TOOL	JL074	RJ074	WJ002	JLG02	MODEL
20736270	KDB R6 KN1	YES(T5)	NO	NO	NO	NO	97/3A & B	*	-	NO	NO	T5
20736280	KDB R6 KN2	YES(R6)	YES	NO	NO	NO	97/3A & B	*	-	YES	YES	R6
20781990	KDB R6 KN3	NO	NO	NO	NO	NO	97/3A & B	*	-	NO	NO	T5

20733280 KDB/KCB KN

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (SABA: VR 6081)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


GKF01
11-MT-83GK
IK001
87pp71I
IK302
ST24C08
SDA
SCL
WC MODE/
VCC
VSS
E
NC
PRE
CBC(CABLE BOX)
SAT COMMANDER
LEARNING SAT
74HC00
IK303
TK206
2SA1162
TK280
BC337
TK305
2SC2712
GK305
SFH2030F
QK001
8MHZ
ZK001
ZMM4.7
DK066
DK280
LL4148
DL091
GK202
GK203
GK204
LKF93
RKF94
RJF94
RLF94
UH+
UH-
CBC OUT
CBC IN
SK001
STOP/EJECT
SK002
PLAY
SK003
SK004
SELECT(H)
SK005
REC
SK006
CH+
SK007
CH-
SK008
POWER
SK009
SK010
F.FWD
SK011
SK012
F.REW
SK013
SK014
ADJUST
BK006
(CONNECT TO FRONT CONNECTOR BOARD)
WK006
FRONT CONNECTOR BOARD
BK014
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO BT005 MAIN BOARD
20418340 KDB/FCB BT

PCB	HIFI S/W	HIFI FUNCTION
AT KDB	SK001	STOP/EJECT
	SK002	PLAY
	SK004	SELECT
	SK005	REC
	SK006	CH+
	SK007	CH-
AT FCB	SK008	POWER
	SK010	FF
	SK012	REW
	SK014	ADJUST

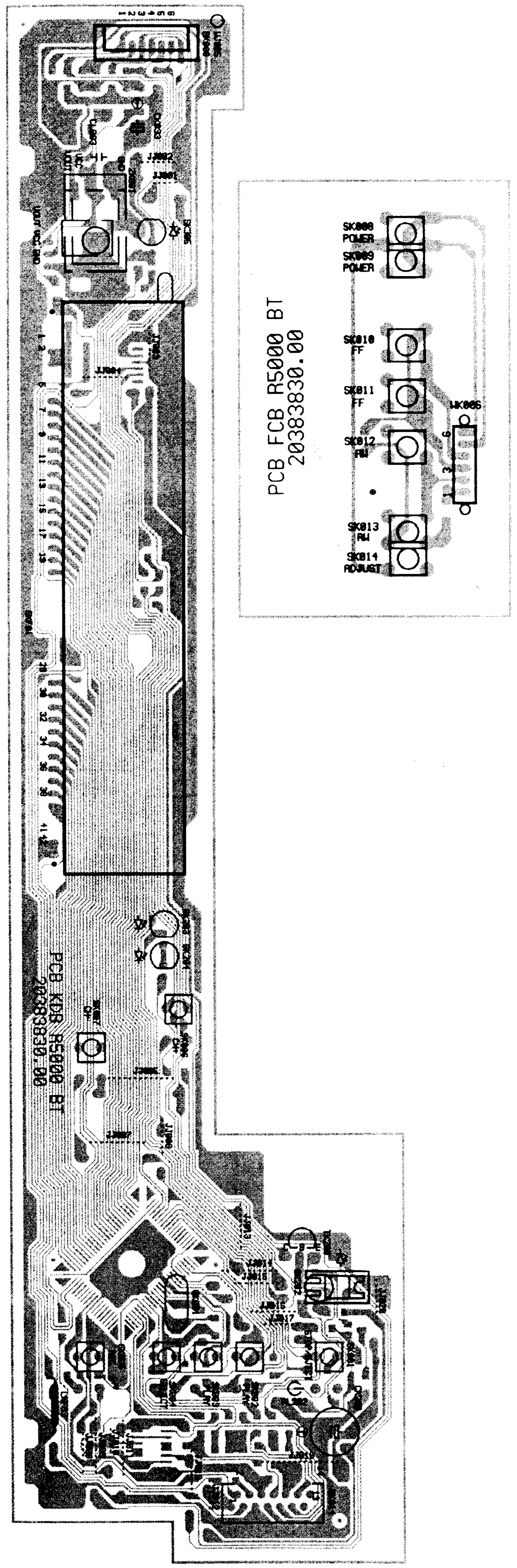
PCB	MONO S/W	MONO FUNCTION
AT KDB	SK001	STOP/EJECT
	SK003	PLAY
	SK005	REC
	SK006	CH+
	SK007	CH-
AT FCB	SK009	POWER
	SK011	FF
	SK013	REW

PARTS	MONO	HIFI
JK001	+	-
JK002	-	+

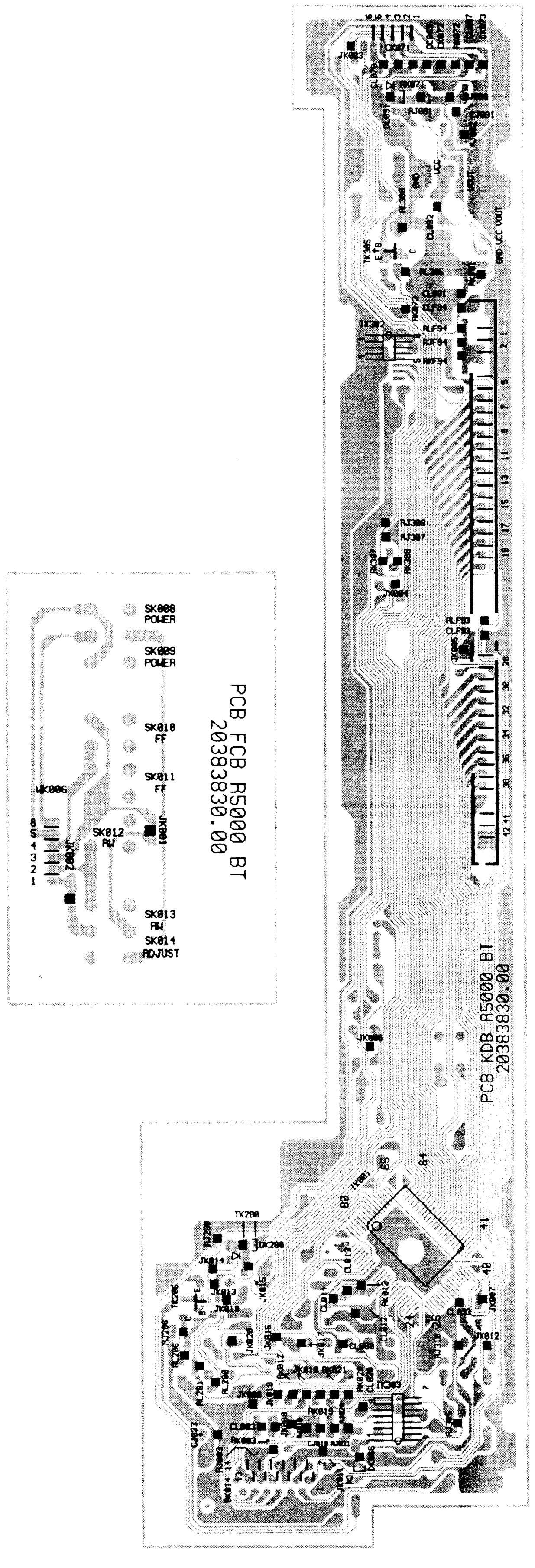
TOCOM NO.	DESCRIPTION	CBC	L.SAT
20383890	KDB/FCB R5 BT1/BT1	+	-
20399450	KDB/FCB R5 BT6/BT2	-	-
20443060	KDB/FCB R5 BT8/BT1	-	-

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(SABA : VR 6081)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

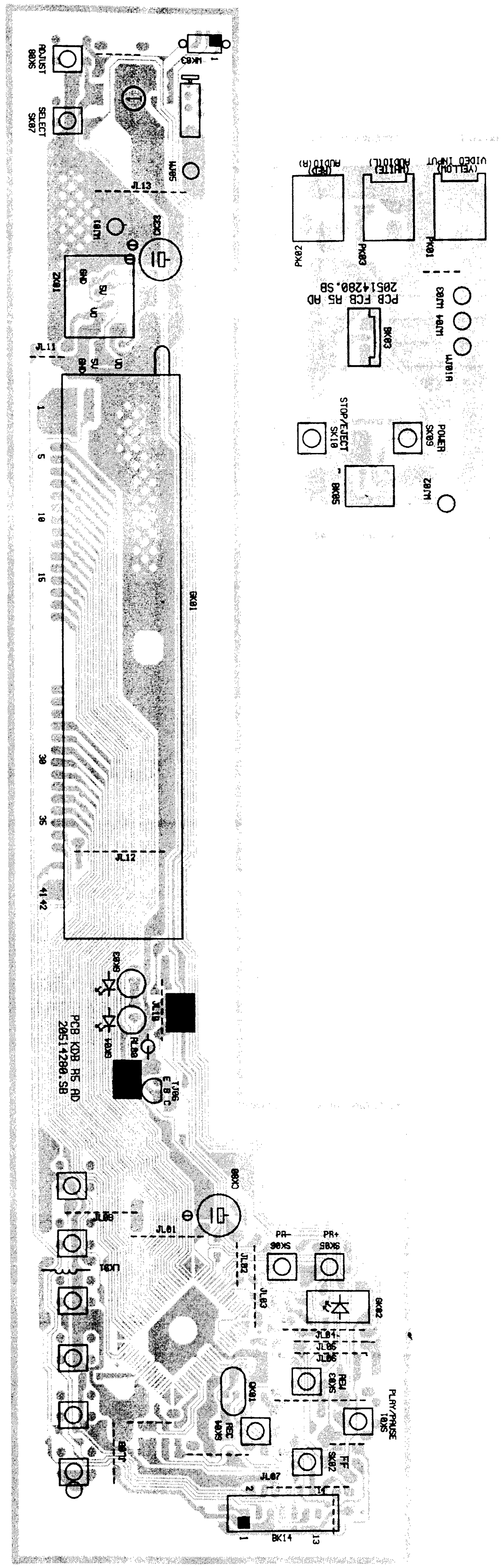

SK008 POWER
SK009 POWER
SK010 FF
SK011 FF
SK012 RW
SK013 RW
SK014 ADJUST
WK006
PCB FCB R5000 BT
20383830.00
PCB KDB R5000 BT
20383830.00

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre

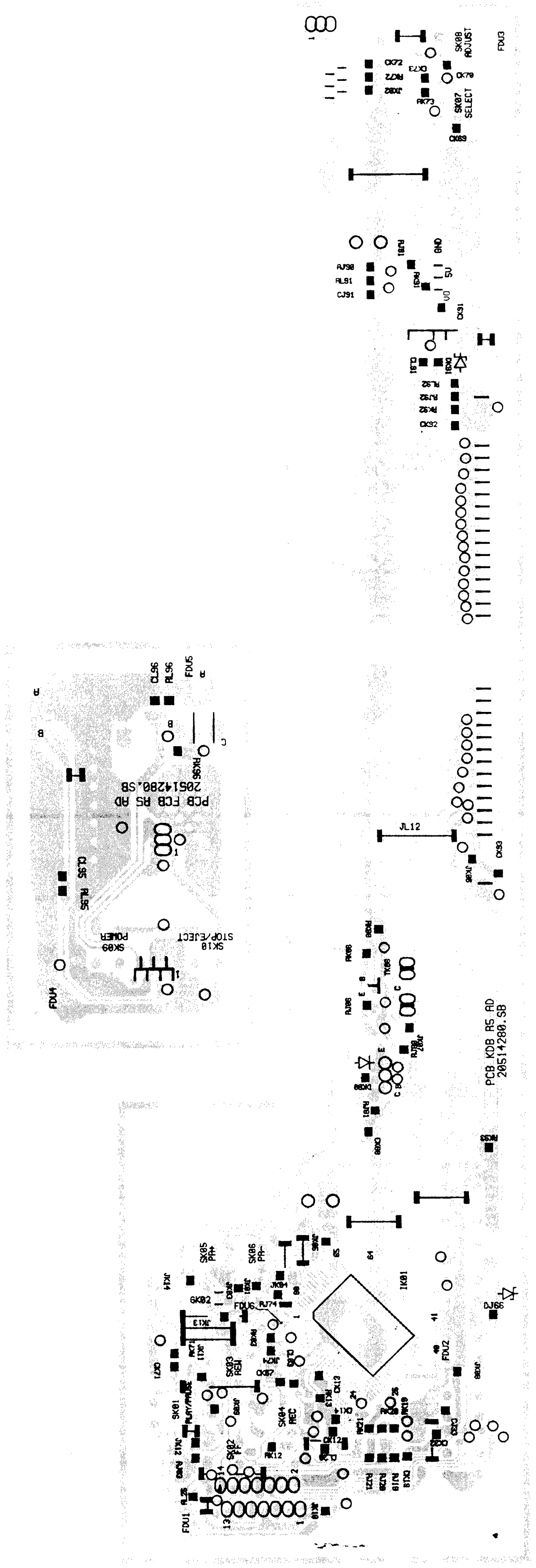

SK008 POWER
SK009 POWER
SK010 FF
SK011 FF
SK012 RW
SK013 RW
SK014 ADJUST
WK006
PCB FCB R5000 BT
20383830.00
PCB KDB R5000 BT
20383830.00

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR **(THOMSON: VPH 6600 N)**

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

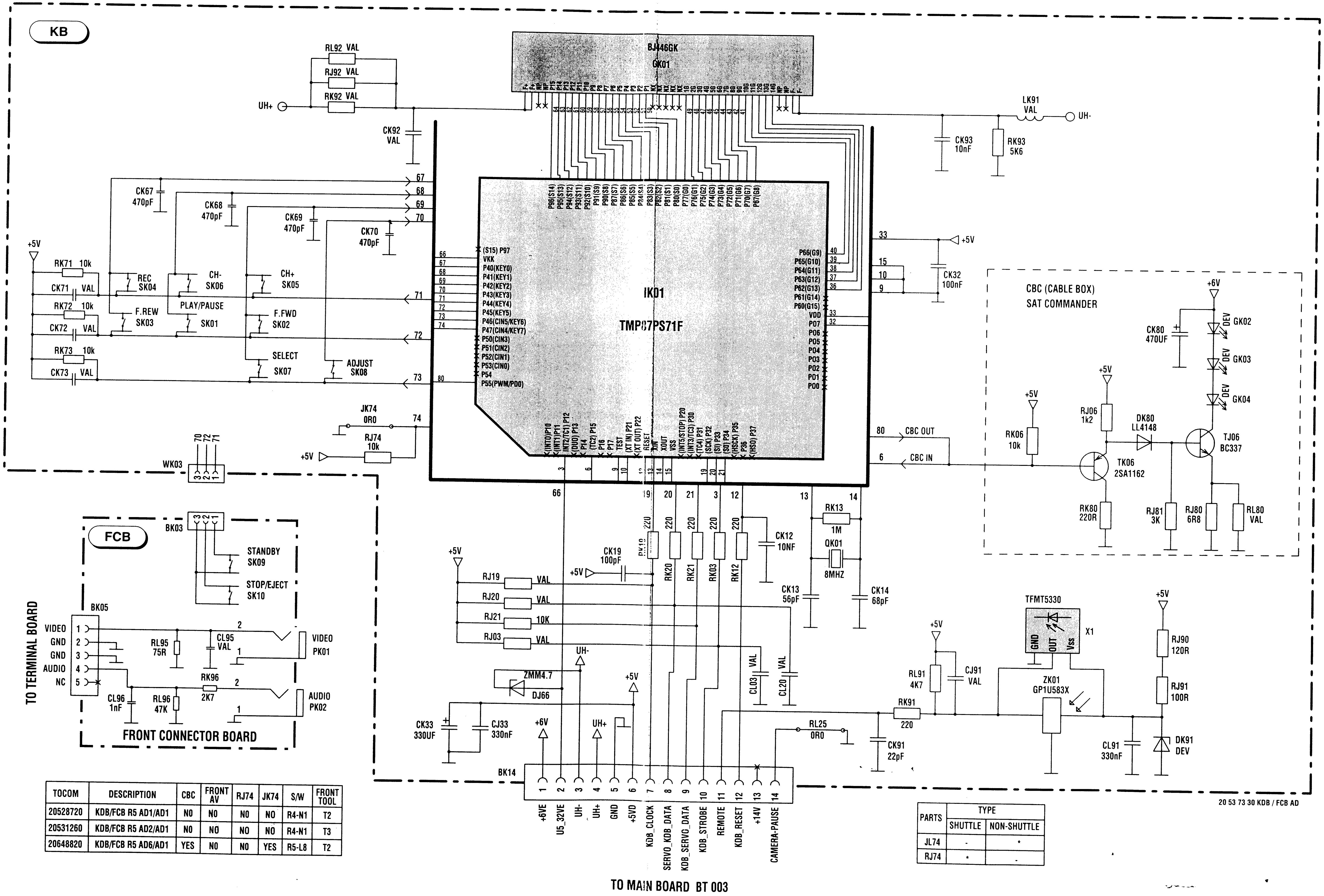

VIDEO INPUT (YELLOW)
AUDIO(L) (WHITE)
AUDIO(R) (RED)
PCB FCB R5 RD
20514280.S8
STOP/EJECT SK10
POWER SK09
SK07 SELECT
SK08 ADJUST
PCB KDB R5 RD
20514280.S8
PR-
PR+
PLAY/PAUSE
FF
BK14

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


SK08 ADJUST
SK07 SELECT
PCB FCB R5 RD
20514280.S8
SK10 STOP/EJECT
SK09 POWER
PCB KDB R5 RD
20514280.S8
JL12

KEYBOARD WITH DISPLAY - PLATINE DE COMMANDES AVEC AFFICHEUR - BEDIENTEIL MIT DISPLAY - TASTIERA CON DISPLAY - PLATINA MANDOS CON VISUALIZADOR (THOMSON: VPH 6600 N)

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


KB
BJ446GK
GK01
RL92 VAL
RJ92 VAL
RK92 VAL
UH+
CK92 VAL
LK91 VAL
UH-
CK93 10nF
RK93 5K6
CK67 470pF
CK68 470pF
CK69 470pF
CK70 470pF
+5V
RK71 10k
CK71 VAL
RK72 10k
CK72 VAL
RK73 10k
CK73 VAL
REC SK04
CH- SK06
CH+ SK05
F.REW SK03
PLAY/PAUSE SK01
F.FWD SK02
SELECT SK07
ADJUST SK08
JK74 0R0
RJ74 10k
WK03
IK01
TMP87PS71F
CK32 100nF
CBC OUT
CBC IN
CBC (CABLE BOX)
SAT COMMANDER
CK80 470UF
+6V
GK02
GK03
GK04
DEV
RJ06 1k2
DK80 LL4148
TJ06 BC337
RK06 10k
TK06 2SA1162
RK80 220R
RJ81 3K
RJ80 6R8
RL80 VAL
FCB
BK03
STANDBY SK09
STOP/EJECT SK10
BK05
VIDEO
GND
GND
AUDIO
NC
RL95 75R
CL95 VAL
VIDEO PK01
RK96 2K7
CL96 1nF
RL96 47K
AUDIO PK02
FRONT CONNECTOR BOARD
TO TERMINAL BOARD
RJ19 VAL
RJ20 VAL
RJ21 10K
RJ03 VAL
CK19 100pF
RK19 220
RK20 220
RK21 220
RK03 220
RK12 220
CK12 10NF
RK13 1M
QK01 8MHZ
CK13 56pF
CK14 68pF
ZMM4.7
DJ66
CL03 VAL
CL20 VAL
CK33 330UF
CJ33 330nF
TFMT5330
GND OUT Vss
X1
RL91 4K7
CJ91 VAL
RK91 220
ZK01 GP1U583X
RJ90 120R
RJ91 100R
CL91 330nF
DK91 DEV
RL25 0R0
CK91 22pF
BK14
+6VE
U5_32VE
UH-
UH+
GND
+5VD
KDB_CLOCK
SERVO_KDB_DATA
KDB_SERVO_DATA
KDB_STROBE
REMOTE
KDB_RESET
+14V
CAMERA-PAUSE
TO MAIN BOARD BT 003
20 53 73 30 KDB / FCB AD

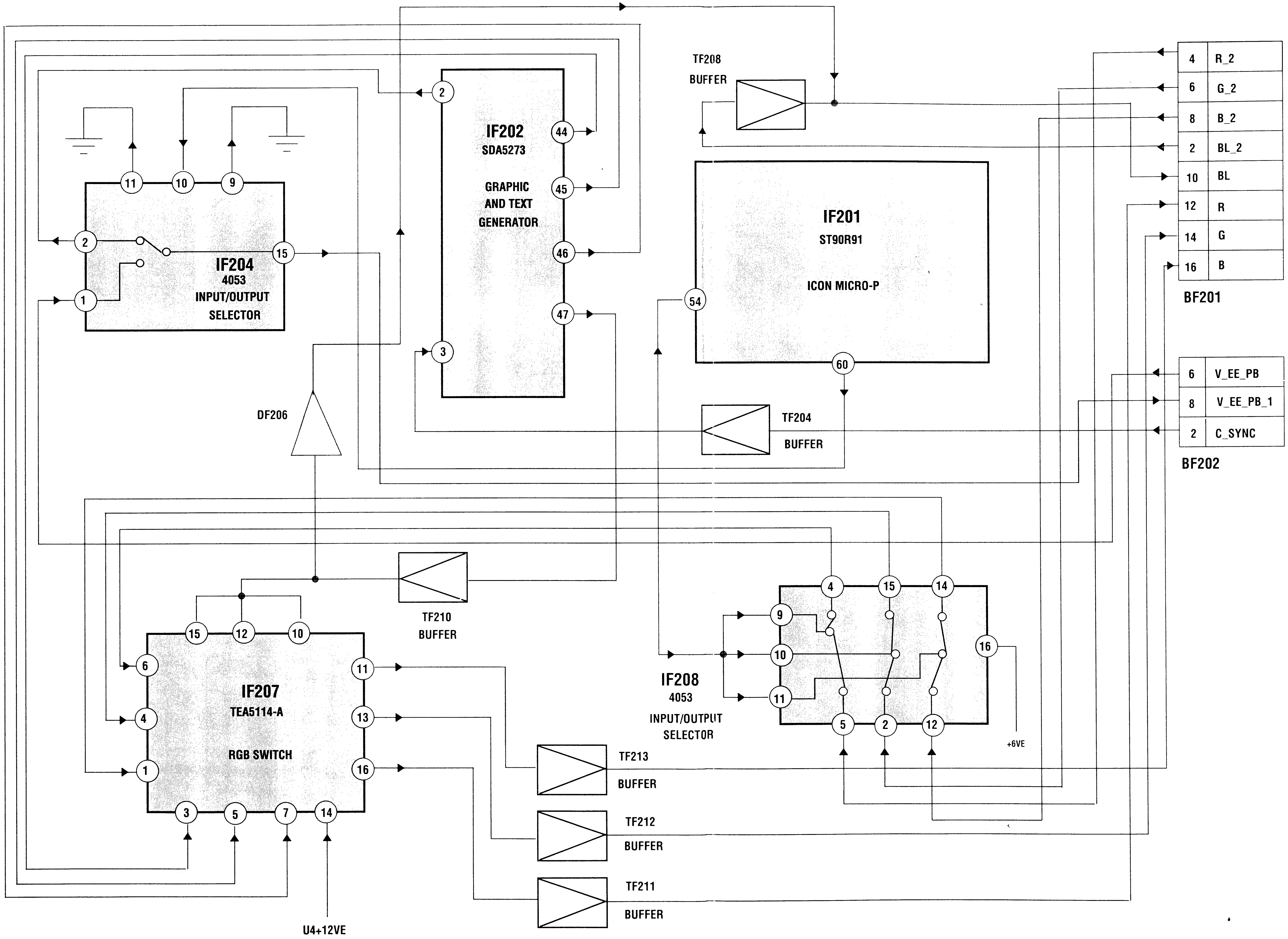
TOCOM	DESCRIPTION	CBC	FRONT AV	RJ74	JK74	S/W	FRONT TOOL
20528720	KDB/FCB R5 AD1/AD1	NO	NO	NO	NO	R4-N1	T2
20531260	KDB/FCB R5 AD2/AD1	NO	NO	NO	NO	R4-N1	T3
20648820	KDB/FCB R5 AD6/AD1	YES	NO	NO	YES	R5-L8	T2

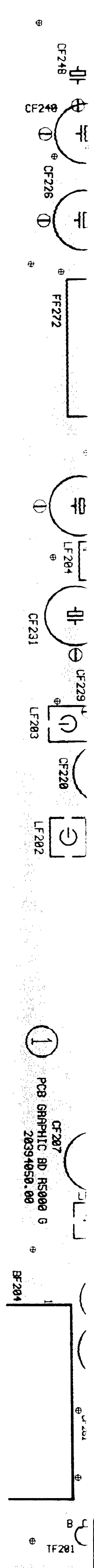
PARTS	TYPE	
	SHUTTLE	NON-SHUTTLE
JL74	-	•
RJ74	•	-

GRAPHIC BOARD (ICONS) - PLATINE GRAPHIQUE (ICONES) - LEITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA AGRAFICA

BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES

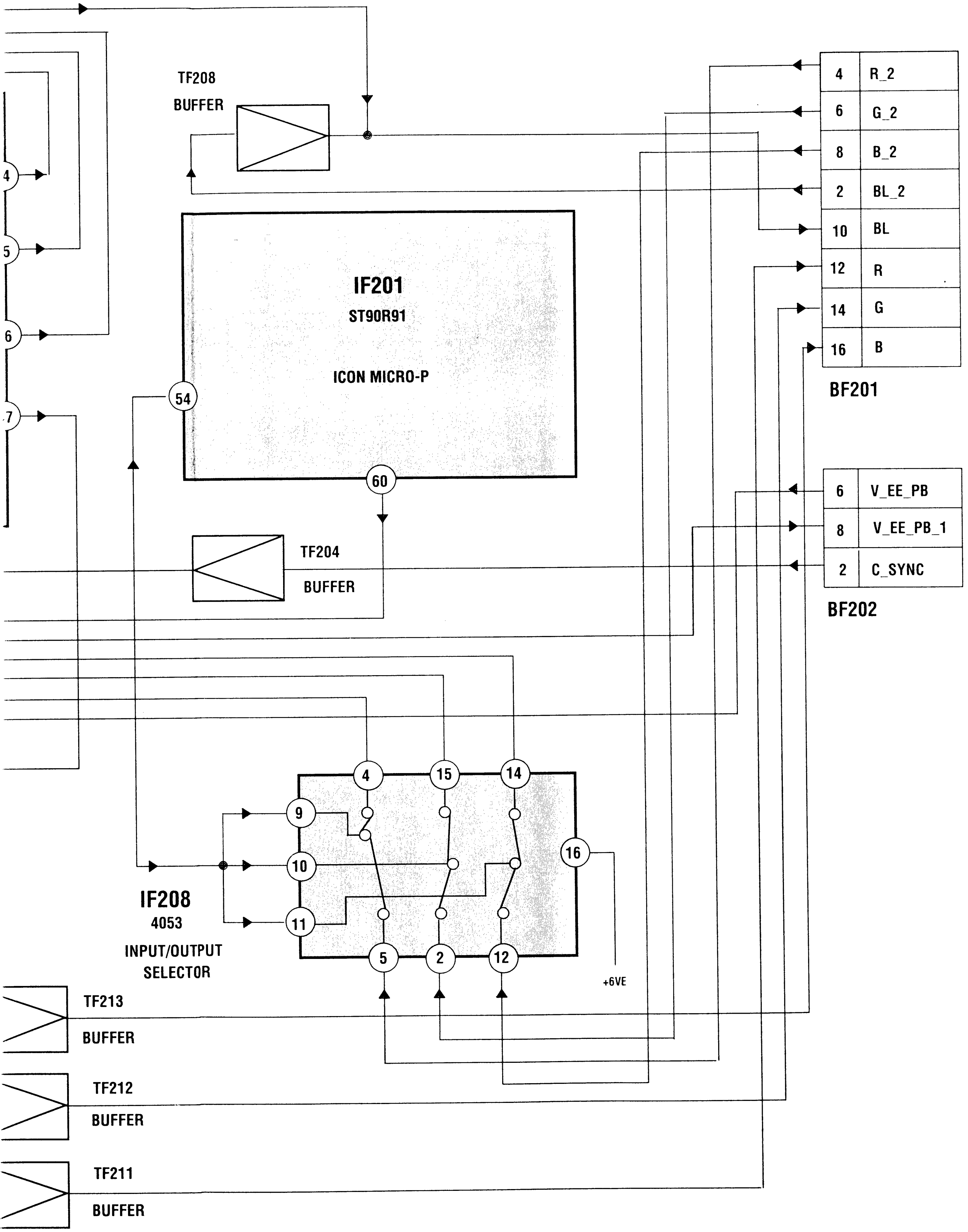
Component side -Côté
compone


IF202
SDA5273
GRAPHIC
AND TEXT
GENERATOR
2
3
44
45
46
47
TF208
BUFFER
IF201
ST90R91
ICON MICRO-P
54
60
IF204
4053
INPUT/OUTPUT
SELECTOR
11
10
9
2
1
15
DF206
TF204
BUFFER
4
R_2
6
G_2
8
B_2
2
BL_2
10
BL
12
R
14
G
16
B
BF201
6
V_EE_PB
8
V_EE_PB_1
2
C_SYNC
BF202
TF210
BUFFER
IF207
TEA5114-A
RGB SWITCH
15
12
10
6
4
1
11
13
16
3
5
7
14
U4+12VE
IF208
4053
INPUT/OUTPUT
SELECTOR
4
15
14
9
10
11
16
5
2
12
+6VE
TF213
BUFFER
TF212
BUFFER
TF211
BUFFER

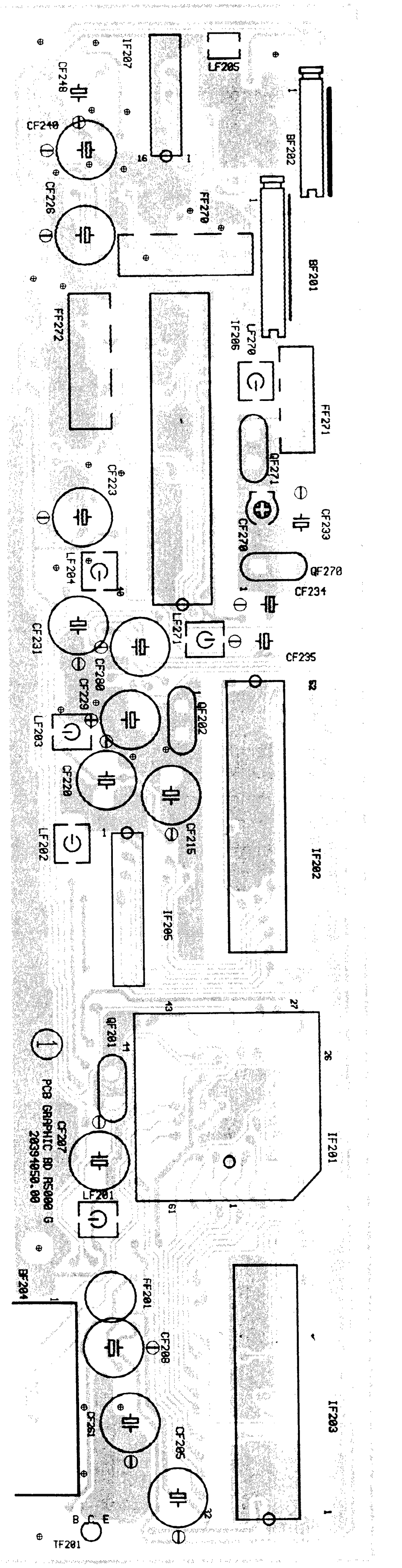

CF240
CF228
FF272
LF204
CF231
CF229
LF203
CF220
LF202
1
CF207
PCB GRAPHIC BD R5000 G
BF204
TF201

LEITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA AGRAFICA

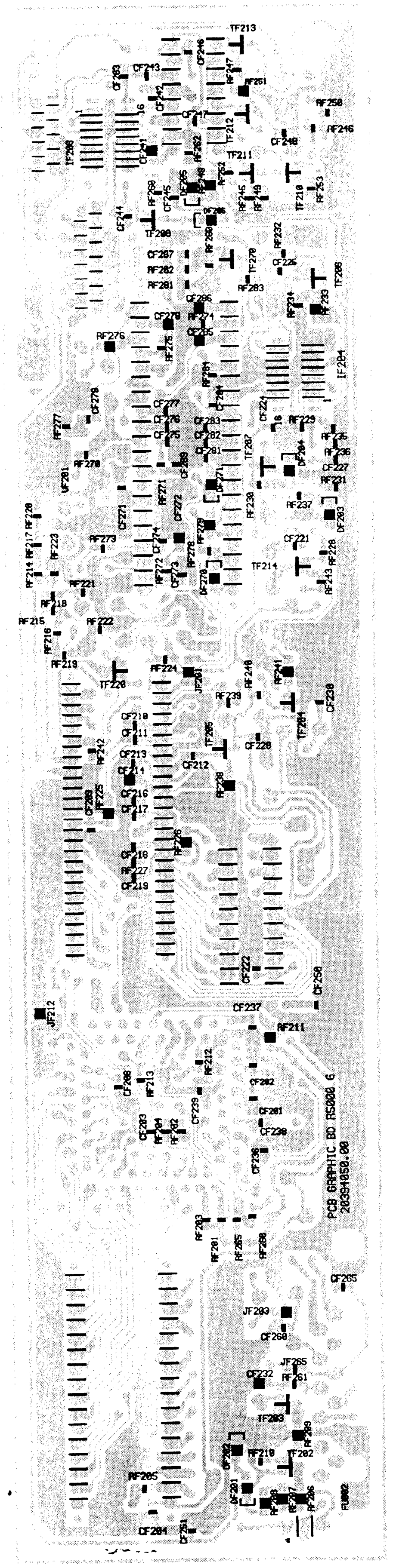
MA A BLOCCHI - ESQUEMA DE BLOQUES


TF208
BUFFER
4
5
6
7
IF201
ST90R91
ICON MICRO-P
54
60
4 R_2
6 G_2
8 B_2
2 BL_2
10 BL
12 R
14 G
16 B
BF201
6 V_EE_PB
8 V_EE_PB_1
2 C_SYNC
BF202
TF204
BUFFER
4
15
14
9
10
11
16
5
2
12
+6VE
IF208
4053
INPUT/OUTPUT
SELECTOR
TF213
BUFFER
TF212
BUFFER
TF211
BUFFER

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

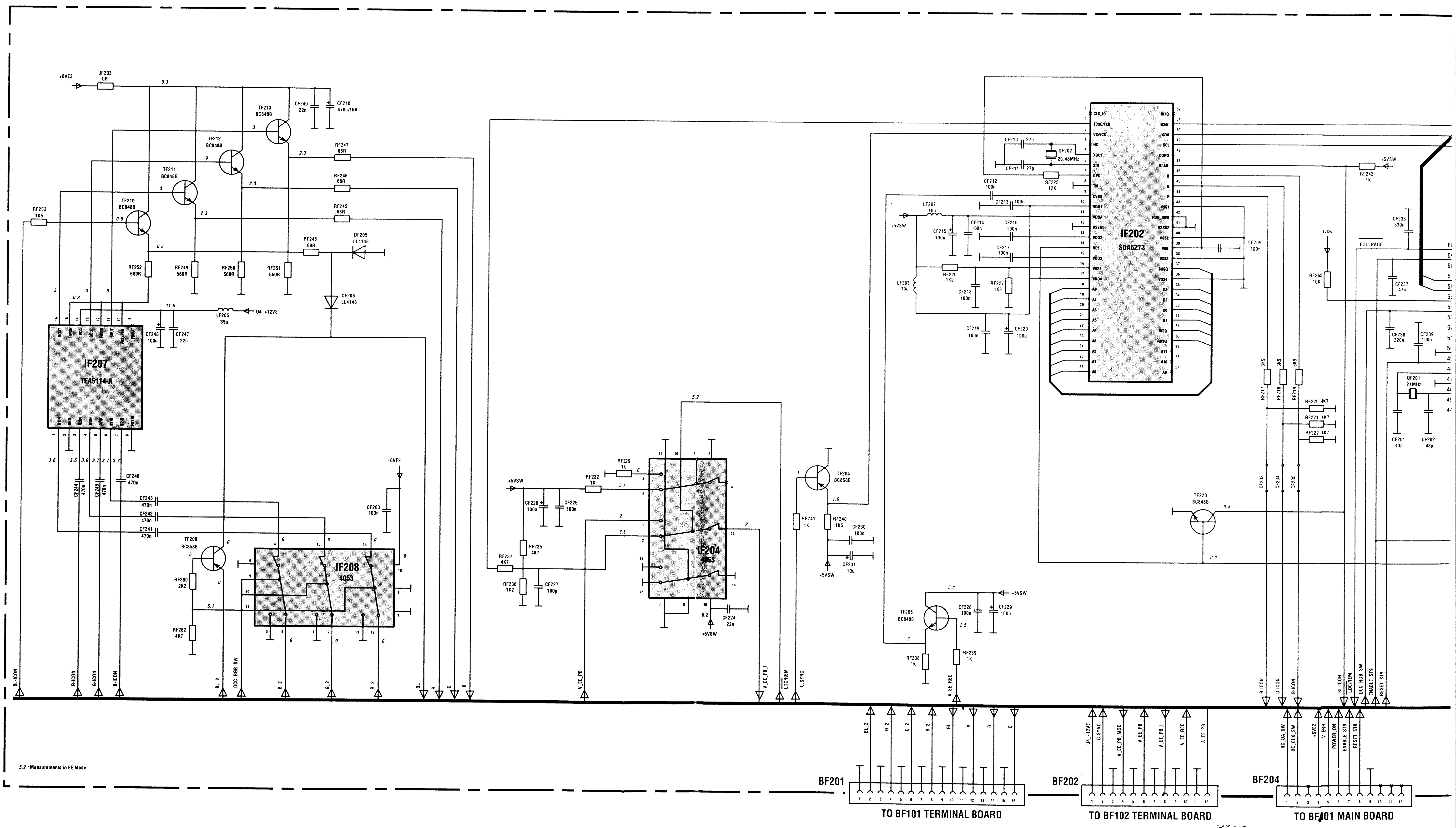

IF207
LF205
BF202
BF201
FF270
FF272
FF271
QF270
CF234
CF235
IF202
IF206
IF201
IF203
BF204
TF201
PCB GRAPHIC BD RS000 G

Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


TF213
TF211
TF214
CF237
RF211
PCB GRAPHIC BD RS000 G

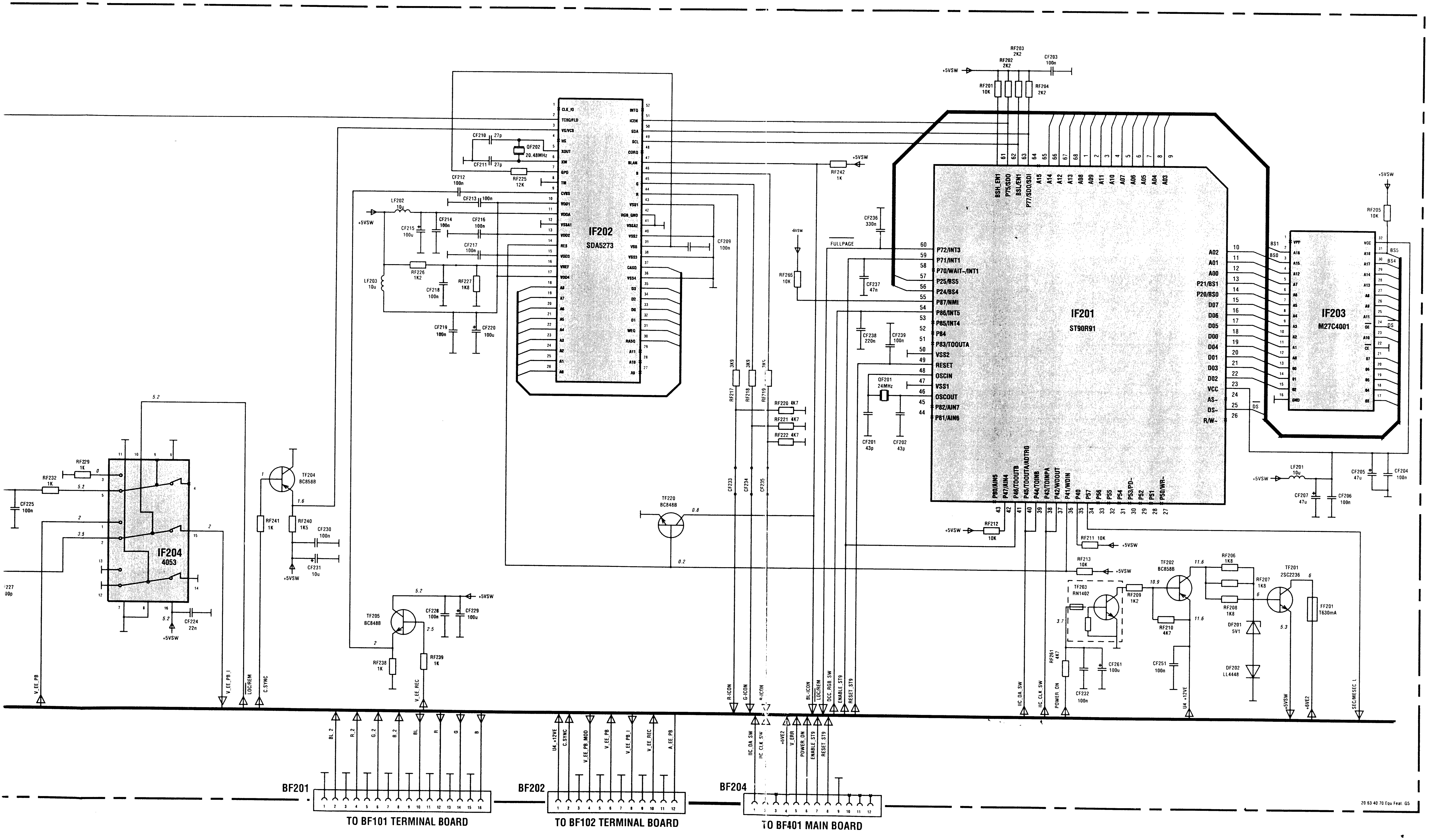
GRAPHIC BOARD (ICONS) - PLATINE GRAPHIQUE (ICONES) - LEITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA AGRAFICA (VPH 6697SE

SCHEMATIC DIAGRAM -SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


+6VE2
JF203 0R
TF213 BC848B
CF249 22n
CF240 470u/16V
TF212 BC848B
TF211 BC848B
TF210 BC848B
RF253 1K5
RF247 68R
RF246 68R
RF245 68R
RF248 68R
DF205 LL4148
DF206 LL4148
RF252 680R
RF249 560R
RF250 560R
RF251 560R
LF205 39u
U4_+12VE
CF248 100u
CF247 22n
IF207
TEA5114-A
CF246 470n
CF244 470n
CF245 470n
CF243 470n
CF242 470n
CF241 470n
CF263 100n
TF208 BC858B
RF260 2K2
RF262 4K7
IF208
4053
BL-ICON
R-ICON
G-ICON
B-ICON
BL_2
DCC_RGB_SW
B_2
G_2
R_2
BL
R
G
B
+5VSW
RF229 1K
RF232 1K
CF226 100u
CF225 100n
RF237 4K7
RF235 4K7
RF236 1K2
CF227 100p
IF204
4053
CF224 22n
V_EE_PB
V_EE_PB_I
LOC/REM
C.SYNC
TF204 BC858B
RF241 1K
RF240 1K5
CF230 100n
CF231 10u
TF205 BC848B
CF228 100n
CF229 100u
RF238 1K
RF239 1K
V_EE_REC
IF202
SDA5273
CF210 27p
CF211 27p
QF202 20.48MHz
RF225 12K
CF212 100n
CF213 100n
LF202 10u
CF214 100n
CF215 100u
CF216 100n
CF217 100n
RF226 1K2
RF227 1K8
LF203 10u
CF218 100n
CF219 100n
CF220 100u
CF209 100n
RF242 1K
RF265 10K
CF236 330n
FULLPAGE
CF237 47n
CF238 220n
CF239 100n
QF201 24MHz
CF201 43p
CF202 43p
RF217 3K9
RF218 3K9
RF219 3K9
RF220 4K7
RF221 4K7
RF222 4K7
CF233
CF234
CF235
TF220 BC848B
BF201
TO BF101 TERMINAL BOARD
BF202
U4_+12VE
C.SYNC
V_EE_PB_MOD
V_EE_PB
V_EE_PB_I
V_EE_REC
A_EE_PB
TO BF102 TERMINAL BOARD
BF204
IIC_DA_SW
IIC_CLK_SW
+6VE2
V_ERR
POWER_ON
ENABLE_ST9
RESET_ST9
TO BF401 MAIN BOARD
5.2 : Measurements in EE Mode

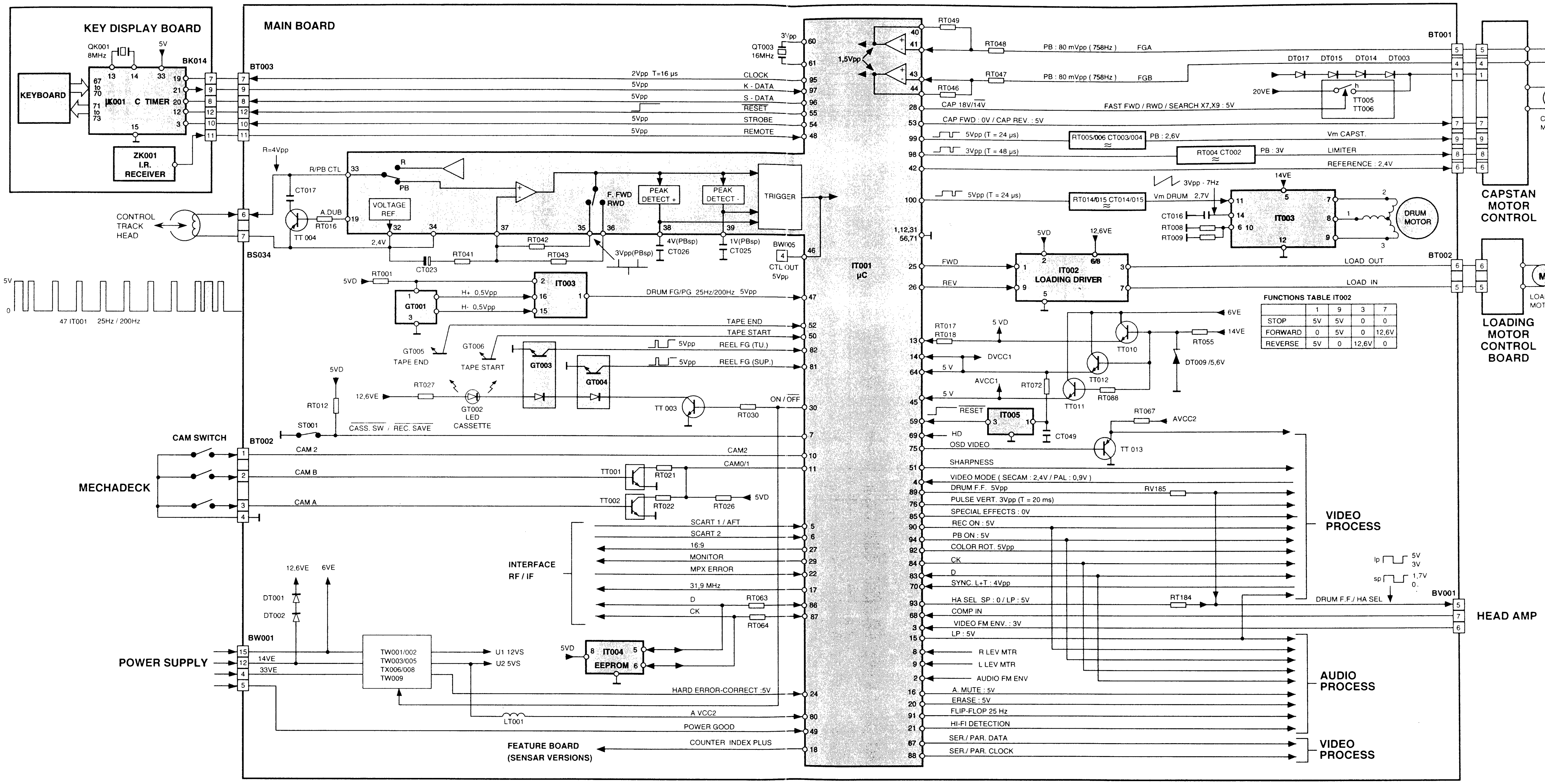
EITERPLATTE ZEICHENSATZEINBLENDUNG - PIASTRA GRAFICO - PLATINA AGRAFICA (VPH 6697SENSAR - VPH 6790)

QUEMA


IF202
SDA5273
IF201
ST90R91
IF203
M27C4001
IF204
4053
QF202
20.48MHz
QF201
24MHz
TF204
BC858B
TF220
BC848B
TF205
BC848B
TF202
BC858B
TF203
RN1402
TF201
2SC2236
FF201
T630mA
DF201
5V1
DF202
LL4448
+5VSW
FULLPAGE
BF201
TO BF101 TERMINAL BOARD
BF202
TO BF102 TERMINAL BOARD
BF204
TO BF401 MAIN BOARD
20 63 40 70 Equ Feat G5

MECHA DECK CONTROL / SERVO CONTROL - GESTION / ASSERVISSEMENTS - MECHANIKSTEUERUNG / SERVO - CONTROLLO MECCANISMO / ASSERVIMENTI - SERVOMECANISMO / GESTIÓN

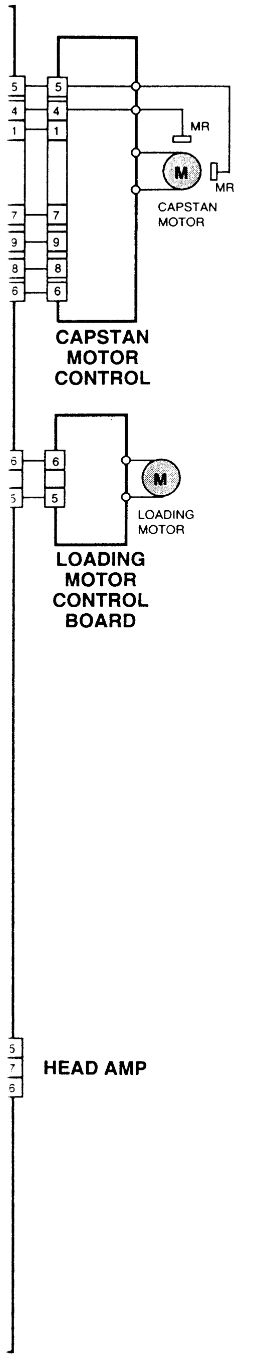
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES


KEY DISPLAY BOARD
QK001 8MHz
5V
BK014
KEYBOARD
IK001 C TIMER
ZK001 I.R. RECEIVER
CONTROL TRACK HEAD
MAIN BOARD
BT003
R=4Vpp
R/PB CTL
CT017
A.DUB
RT016
TT 004
VOLTAGE REF
PEAK DETECT +
PEAK DETECT -
TRIGGER
F. FWD
RWD
BS034
2Vpp T=16 µs
CLOCK
K - DATA
S - DATA
RESET
STROBE
REMOTE
QT003 16MHz
1,5Vpp
4V(PBsp)
1V(PBsp)
CT026
CT025
3Vpp(PBsp)
RT041
RT042
RT043
CT023
BW005
CTL OUT 5Vpp
5VD
RT001
GT001
IT003
H+ 0,5Vpp
H- 0,5Vpp
DRUM FG/PG 25Hz/200Hz 5Vpp
47 IT001 25Hz / 200Hz
TAPE END
TAPE START
REEL FG (TU.)
REEL FG (SUP.)
GT005 TAPE END
GT006 TAPE START
GT003
GT004
RT027
12,6VE
GT002 LED CASSETTE
RT012
ST001
CASS. SW / REC. SAVE
TT 003
RT030
ON / OFF
CAM SWITCH
BT002
MECHADECK
CAM 2
CAM B
CAM A
CAM2
CAM0/1
TT001
TT002
RT021
RT022
RT026
SCART 1 / AFT
SCART 2
16:9
MONITOR
MPX ERROR
31,9 MHz
D
CK
RT063
RT064
INTERFACE RF / IF
DT001
DT002
6VE
BW001
POWER SUPPLY
14VE
33VE
TW001/002 TW003/005 TX006/008 TW009
U1 12VS
U2 5VS
IT004 EEPROM
HARD ERROR-CORRECT :5V
A VCC2
LT001
POWER GOOD
COUNTER INDEX PLUS
FEATURE BOARD (SENSAR VERSIONS)
IT001 µC
RT049
RT048
RT047
RT046
PB : 80 mVpp (758Hz)
FGA
FGB
CAP 18V/14V
FAST FWD / RWD / SEARCH X7,X9 : 5V
CAP FWD : 0V / CAP REV. : 5V
5Vpp (T = 24 µs)
3Vpp (T = 48 µs)
RT005/006 CT003/004
RT004 CT002
PB : 2,6V
PB : 3V
Vm CAPST.
LIMITER
REFERENCE : 2,4V
DT017 DT015 DT014 DT003
20VE
TT005 TT006
BT001
CAPSTAN MOTOR
MR
CAPSTAN MOTOR CONTROL
3Vpp - 7Hz
Vm DRUM 2,7V
RT014/015 CT014/015
CT016
RT008
RT009
IT003
DRUM MOTOR
LOAD OUT
LOAD IN
FWD
REV
IT002 LOADING DRIVER
BT002
LOADING MOTOR
LOADING MOTOR CONTROL BOARD
RT017
RT018
DVCC1
AVCC1
RT072
TT010
TT011
TT012
RT088
RT055
DT009 /5,6V
RESET
IT005
CT049
RT067
AVCC2
TT 013
HD
OSD VIDEO
SHARPNESS
VIDEO MODE (SECAM : 2,4V / PAL : 0,9V)
DRUM F.F. 5Vpp
RV185
PULSE VERT. 3Vpp (T = 20 ms)
SPECIAL EFFECTS : 0V
REC ON : 5V
PB ON : 5V
COLOR ROT. 5Vpp
CK
D
SYNC. L+T : 4Vpp
HA SEL SP : 0 / LP : 5V
RT184
DRUM F.F. / HA SEL
COMP IN
VIDEO FM ENV. : 3V
LP : 5V
BV001
HEAD AMP
VIDEO PROCESS
R LEV MTR
L LEV MTR
AUDIO FM ENV
A. MUTE : 5V
ERASE : 5V
FLIP-FLOP 25 Hz
HI-FI DETECTION
AUDIO PROCESS
SER./ PAR. DATA
SER./ PAR. CLOCK
VIDEO PROCESS

FUNCTIONS TABLE IT002

	1	9	3	7
STOP	5V	5V	0	0
FORWARD	0	5V	0	12,6V
REVERSE	5V	0	12,6V	0

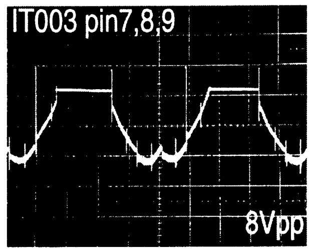
MEASUREMENTS MECHA DECK CONTROL / SERVO CONTROL - MESURES GESTION / ASSERVISSEMENTS - MESSUNGEN MECHANIKSTEUERUNG / SERVO - MISURI CONTROLLO MECCANISMO / ASSERVIMENTI - MEDIDAS SERVOMECANISMO / GESTIÓN



SERVO		MODE	
LOC	PIN	PLAY	REC.
IT001	1	0	0
	2	0.4	2.3
	3	2,1	0
	4	3.4	0
	5	1.9	0
	6	0	0
	7	0	4.9
	8	0	3.7
	9	0.1	3.7
	10	0	0
	11	2	2
	12	0	0
	13	4.9	4.9
	14	4.8	4.8
	15	0	2.1
	16	0	0
	17	0	0
	18	0	0
	19	4.8	0
	20	0	0
	21	4.4	0
	22	5.1	0
	23	4.8	0
	24	4.9	4.9
	25	4.8	4.8
	26	4.8	4.8
	27	0	0
	28	0	0
	29	4.7	0
	30	4.6	0
	31	0	0
	32	2.4	2.4
	33	2.4	2.8
	34	2.4	2.4
	35	2.4	2.4
	36	2.4	2.4
	37	2.4	2.4
	38	3.8	2.4
	39	0.9	2.2
	40	2.4	2.4
	41	2.4	2.4
	42	2.4	2.4
	43	2.4	2.4
	44	0	2.4
	45	4.8	4.8
	46	4.8	4.8
	47	1.2	1.2
	48	4.9	4.9
	49	5	0
	50	4.9	4.8
	51	1.8	1.6
	52	4.9	5
	53	0	0
	54	4	2.1
	55	4.8	4.8
	56	0	0
	57	2.1	3.3
	58	2.5	2.5
	59	4.8	4.8
	60	2.3	2.3
	61	2	2
	62	4.8	4.8
	63	2.2	0.5
	64	4.8	4.8

SERVO		MODE	
LOC	PIN	PLAY	REC.
	65	0	0
	66	0	0
	67	0	0
	68	4.7	0
	69	4.7	4.7
	70	0.7	0.7
	71	0	0
	72	0	0
	73	0.8	0
	74	0	0
	75	1.3	1.3
	76	1.8	1.8
	77	1.5	0.2
	78	2.2	2.2
	79	2.2	2.2
	80	5.1	5.1
	81	-	-
	82	-	-
	83	4.9	4.9
	84	4.9	4.9
	85	4.8	4.8
	86	4.5	4.5
	87	4.6	4.6
	88	4.8	4.8
	89	2.3	2.3
	90	0	4.8
	91	2.4	2.4
	92	2.4	2.4
	93	4.7	0
	94	4.7	0
	95	4.3	4.3
	96	2.6	2.6
	97	4.3	4.3
	98	1.5	1.5
	99	2.5	2.5
	100	2.7	2.7
IT002	1	4.6	4.6
	2	4.9	4.9
	3	0.5	0.5
	4	-	-
	5	0	0
	6	12.4	12.4
	7	0.5	0.5
	8	12.4	12.4
	9	4.6	4.6
IT003	1	1.3	1.3
	2	1.4	1.4
	3	0	0
	4	0	0
	5	13.1	13.1
	6	0	0
	7	10	10
	8	10	10
	9	10	10
	10	0	0
	11	2.7	2.7
	12	0	0
	13	5	5
	14	3.2	3.2
	15	0.6	0.6
	16	0.8	0.8

SERVO		MODE	
LOC	PIN	PLAY	REC.
IT004	1	0	0
	2	0	0
	3	0	0
	4	0	0
	5	4.5	4.5
	6	4.7	4.7
	7	0	0
	8	4.9	4.9
IT005	1	4.8	4.8
	2	0	0
	3	4.8	4.8
TT001	E	0	0
	B	4.5	4.5
	C	0	0
TT002	E	0	0
	B	4.5	4.5
	C	0	0
TT003	E	0	0
	B	0.7	0.7
	C	0	0
TT004	E	2.3	2.3
	B	4.8	4.8
	C	0	0
TT005	E	23.3	23.3
	B	22.7	22.7
	C	10.7	10.7
TT006	E	0	0
	B	0	0
	C	22	22
TT010	E	4.9	4.9
	B	5.6	5.6
	C	5.8	5.8
TT011	E	4.8	4.8
	B	5.5	5.5
	C	5.7	5.7
TT012	E	4.8	4.8
	B	5.6	5.6
	C	5.7	5.7
TT013	E	2	2
	B	1.3	1.3
	C	0	0



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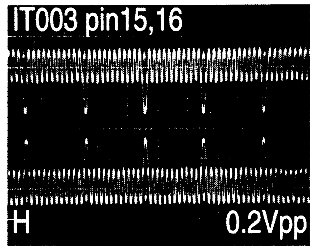

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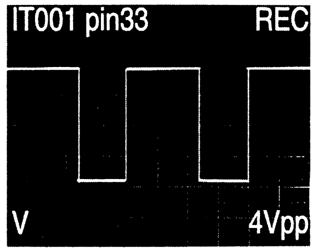

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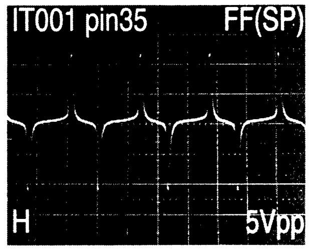

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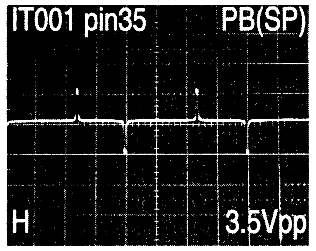

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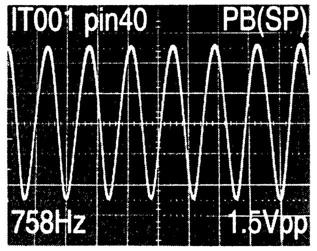

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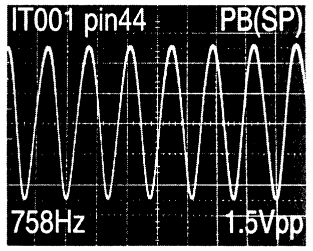

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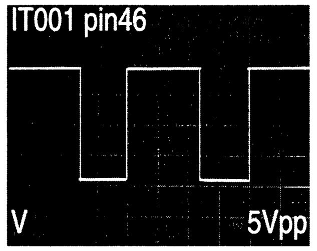

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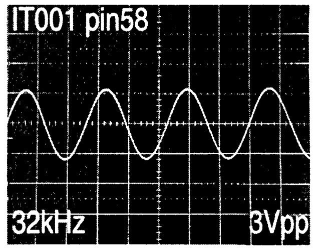

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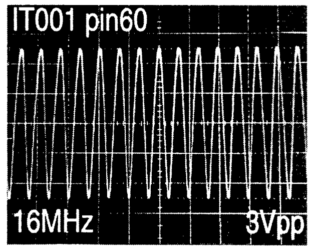

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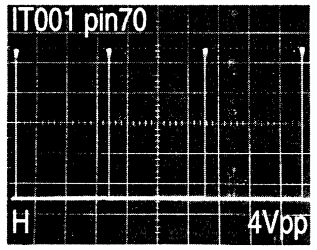

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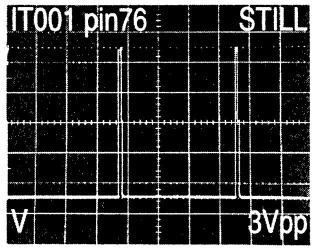
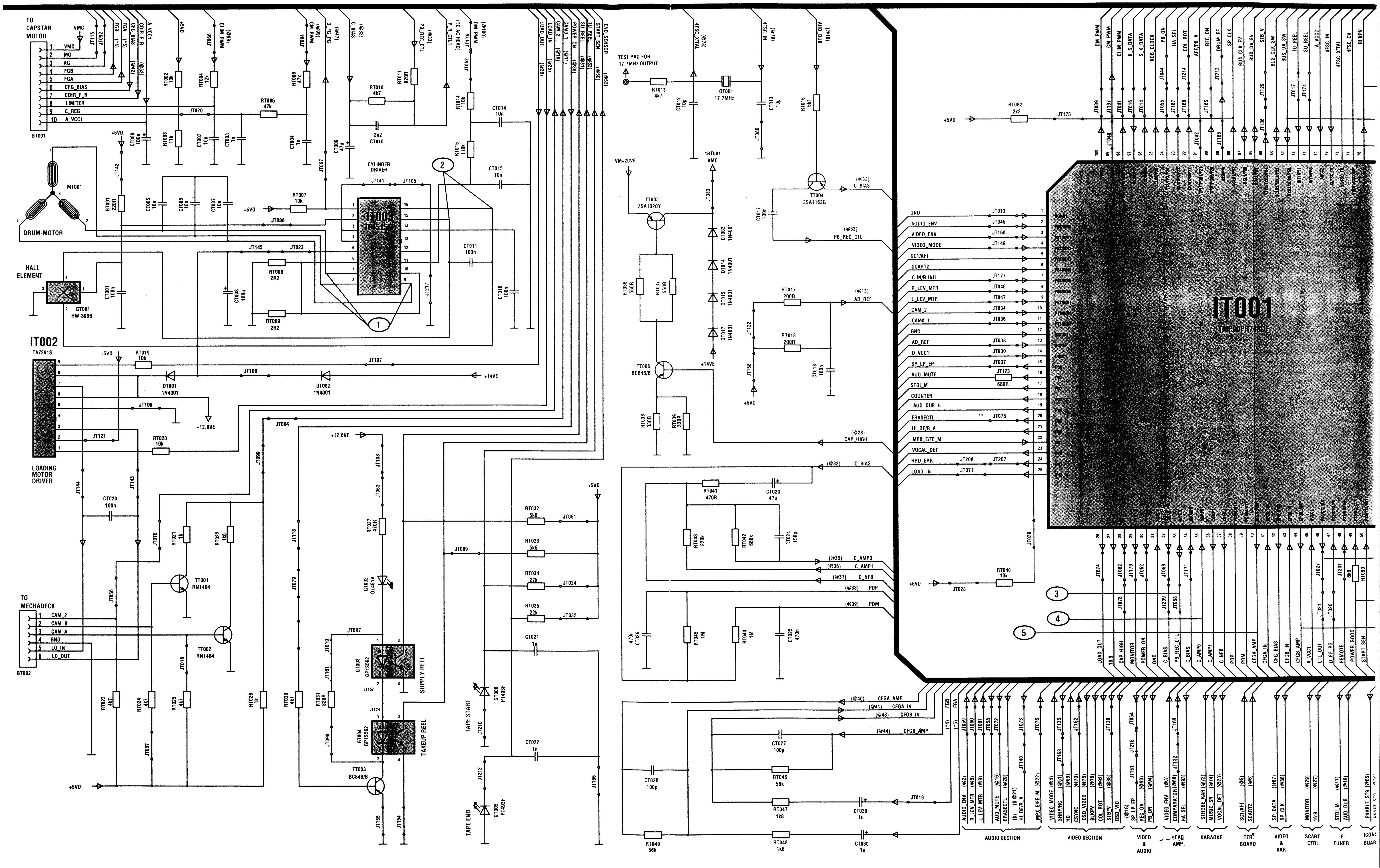


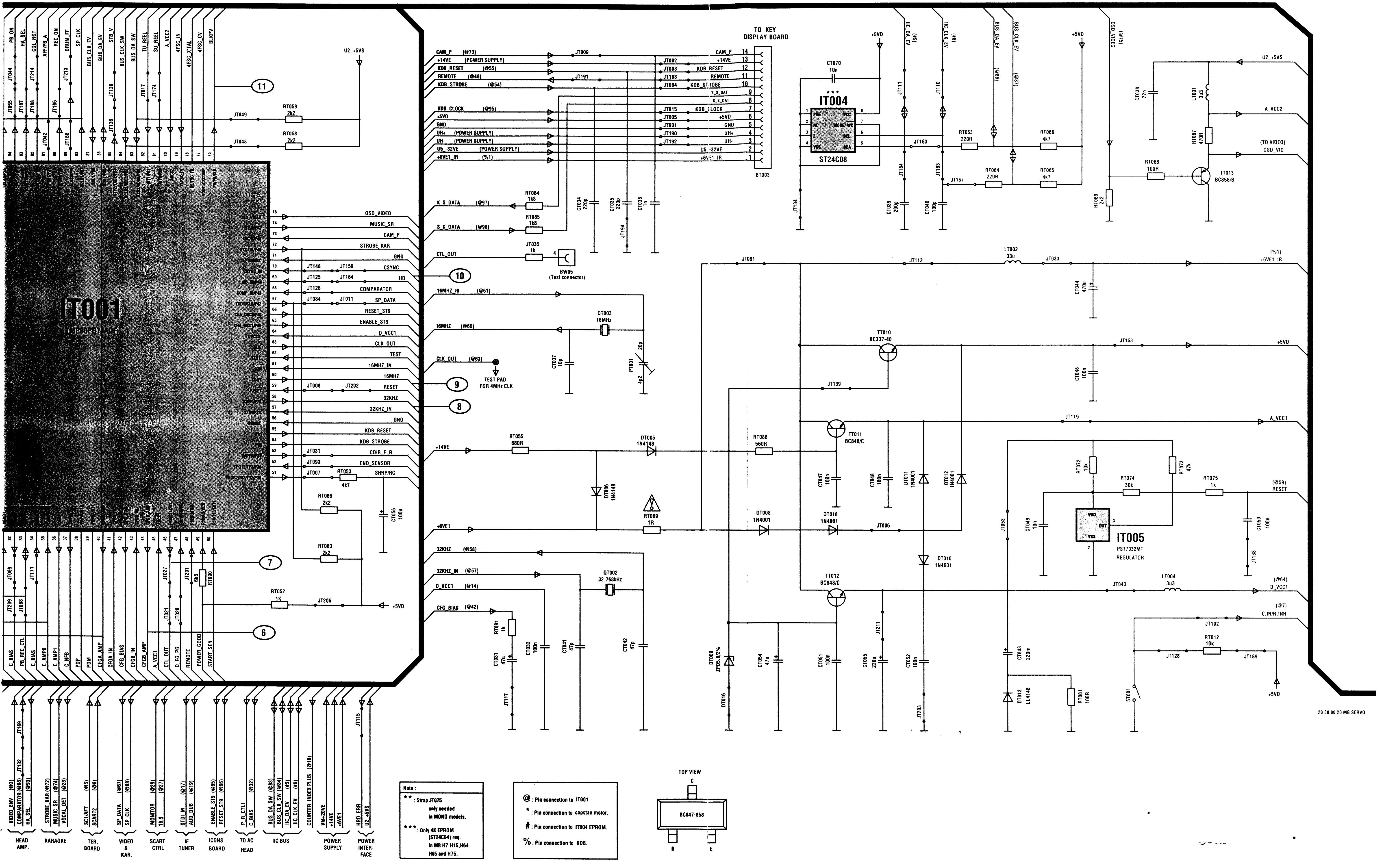
⑫

MECHA DECK CONTROL / SERVO CONTROL - GESTION / ASSERVISSEMENTS - MECHANIKSTEUERUNG / SERVO - CONTROLLO MECCANISMO / ASSERVIMENTI - SERVO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA



TO CAPSTAN MOTOR
VMC
MG
AG
FGB
FGA
CFG_BIAS
CDIR_F_R
LIMITER
C_REG
A_VCC1
BT001
MT001
DRUM-MOTOR
HALL ELEMENT
GT001 HW-300B
IT002
TA7291S
LOADING MOTOR DRIVER
IT003
TB6515AP
CYLINDER DRIVER
DT001 1N4001
DT002 1N4001
+14VE
+12.6VE
+5VD
TO MECHADECK
CAM_2
CAM_B
CAM_A
GND
LO_IN
LO_OUT
BT002
TT001 RN1404
TT002 RN1404
TT003 BC848/B
GT002 GL451V
GT003 GP1S562
SUPPLY REEL
GT004 GP1S562
TAKEUP REEL
GT006 PT493F
TAPE START
GT005 PT493F
TAPE END
RT001 220R
RT002 10k
RT003 11k
RT004 12k
RT005 47k
RT006 47k
RT007 10k
RT008 2R2
RT009 2R2
RT010 4k7
RT011 820R
RT014 110k
RT015 110k
RT019 10k
RT020 10k
RT021 1k
RT022 1k8
RT023 4k7
RT024 4k7
RT025 4k7
RT026 1k
RT027 470R
RT030 4k7
RT031 820R
RT032 5k6
RT033 5k6
RT034 27k
RT035 22k
CT020 100n
CT021 1n
CT022 1n
LOAD_OUT
LOAD_IN
CAM_2
CAM0_1
POWER_ON
SU_REEL
TU_REEL
START_SEN
END_SENSOR
TEST PAD FOR 17.7MHz OUTPUT
RT013 4k7
QT001 17.7MHz
4FSC_XTAL
4FSC_IN
AUD_DUB
VM+20VE
TT005 2SA1020Y
TT004 2SA1162G
TT006 BC848/B
DT003 1N4001
DT014 1N4001
DT015 1N4001
DT017 1N4001
RT036 560R
RT037 560R
RT038 330R
RT039 330R
RT016 5k1
RT017 200R
RT018 200R
AD_REF
C_BIAS
PB_REC_CTL
CAP_HIGH
RT041 470R
CT023 47u
RT043 220k
RT042 680k
CT024 150p
C_AMP0
C_AMP1
C_NFB
PDP
PDM
RT045 1M
RT044 1M
CT025 470n
CT026 470n
CFGA_AMP
CFGA_IN
CFGB_IN
CFGB_AMP
CT027 100p
CT028 100p
RT046 56k
RT047 1k8
RT048 1k8
RT049 56k
CT029 1u
CT030 1u
IT001
TMP90PR74ADF
GND
AUDIO_ENV
VIDEO_ENV
VIDEO_MODE
SC1/AFT
SCART2
C_IN/R.INH
R_LEV_MTR
L_LEV_MTR
CAM_2
CAM0_1
GND
AD_REF
D_VCC1
SP_LP_EP
AUD_MUTE
STDI_M
COUNTER
AUD_DUB_H
ERASECTL
HI_DE/R_A
MPX_E/FE_M
VOCAL_DET
HRD_ERR
LOAD_IN
RT040 10k
RT082 2k2
DM_PWM
CM_PWM
CLIM_PWM
K_S_DATA
S_K_CLOCK
KDB_CLOCK
PB_ON
HA_SEL
COL_ROT
AFF/PB_A
REC_ON
DRUM_FF
SP_CLK
BUS_CLK_EV
BUS_DA_EV
STB_V
BUS_CLK_SW
BUS_DA_SW
TU_REEL
SU_REEL
A_VCC2
4FSC_IN
4FSC_XTAL
4FSC_CV
BLKPV
LOAD_OUT
16:9
CAP_HIGH
MONITOR
POWER_ON
GND
C_BIAS
PB_REC_CTL
C_AMP0
C_AMP1
C_NFB
PDP
PDM
CFGA_IN
CFGA_AMP
CFGB_IN
CFGB_AMP
A_VCC1
CTL_OUT
D_FG_PG
REMOTE
POWER_GOOD
START_SEN
AUDIO SECTION
VIDEO SECTION
VIDEO & AUDIO
HEAD AMP.
KARAOKE
TER BOARD
VIDEO & KAR.
SCART CTRL
IF TUNER


IT001
IT004
ST24C08
IT005
PST7032MT
REGULATOR
TO KEY
DISPLAY BOARD
BT003
CAM_P
+14VE
KDB_RESET
REMOTE
KDB_STROBE
KDB_CLOCK
+5VD
GND
UH+
UH-
U5_-32VE
+6VE1_IR
K_S_DATA
S_K_DATA
CTL_OUT
BW05
(Test connector)
16MHZ_IN
16MHZ
QT003
16MHz
CLK_OUT
TEST PAD
FOR 4MHz CLK
+6VE1
32KHZ
32KHZ_IN
QT002
32.768kHz
D_VCC1
CFG_BIAS
OSD_VIDEO
MUSIC_SR
STROBE_KAR
CSYNC
HD
COMPARATOR
SP_DATA
RESET_ST9
ENABLE_ST9
CLK_OUT
TEST
KDB_RESET
KDB_STROBE
CDIR_F_R
END_SENSOR
SHRP/RC
IIC_DA_EV
IIC_CLK_EV
BUS_DA_EV
BUS_CLK_EV
U2_+5VS
A_VCC2
(TO VIDEO)
OSD_VID
TT013
BC858/B
TT010
BC337-40
TT011
BC848/C
TT012
BC848/C
A_VCC1
RESET
C.IN/R.INH
LT002
33u
LT004
3u3
+5VD
PB_ON
HA_SEL
COL_ROT
AFF/PB_A
REC_ON
DRUM_FF
SP_CLK
BUS_CLK_EV
BUS_DA_EV
STB_V
BUS_CLK_SW
BUS_DA_SW
TU_REEL
SU_REEL
A_VCC2
4FSC_IN
4FSC_XTAL
4FSC_CV
BLKPV
C_BIAS
PB_REC_CTL
C_AMP0
C_AMP1
C_NFB
PDP
PDM
CFGA_AMP
CFGA_IN
CFG_BIAS
CFGB_IN
CFGB_AMP
A_VCC1
CTL_OUT
D_FG_PG
REMOTE
POWER_GOOD
START_SEN
HEAD
AMP.
KARAOKE
TER.
BOARD
VIDEO
&
KAR.
SCART
CTRL
IF
TUNER
ICONS
BOARD
TO AC
HEAD
IIC BUS
POWER
SUPPLY
POWER
INTER-
FACE
TOP VIEW
C
BC847-858
B
E
20 38 80 20 MB SERVO

Note :

* * : Strap JT075 only needed in MONO models.

* * * : Only 4K EPROM (ST24C04) req. in MB H7,H15,H64 H65 and H75.

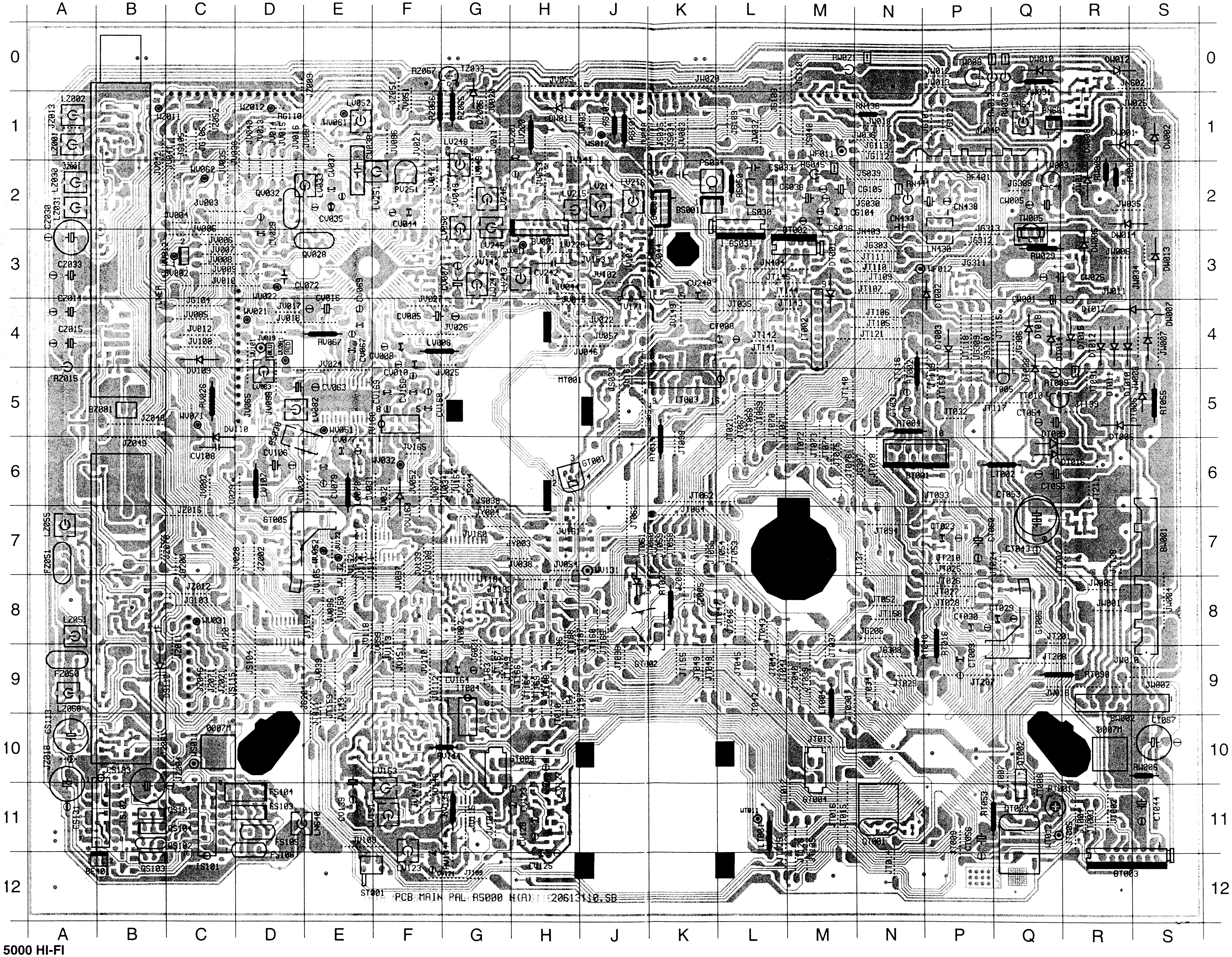
@ : Pin connection to IT001

* : Pin connection to capstan motor.

# : Pin connection to IT004 EPROM.

% : Pin connection to KDB.

Main P.C.B. components side • Circuit imprimé de la platine principale côté composants • Hauptleiterplatte Bestückungsseite
Piastra principale lato componenti • Platina principal lado componentes


A
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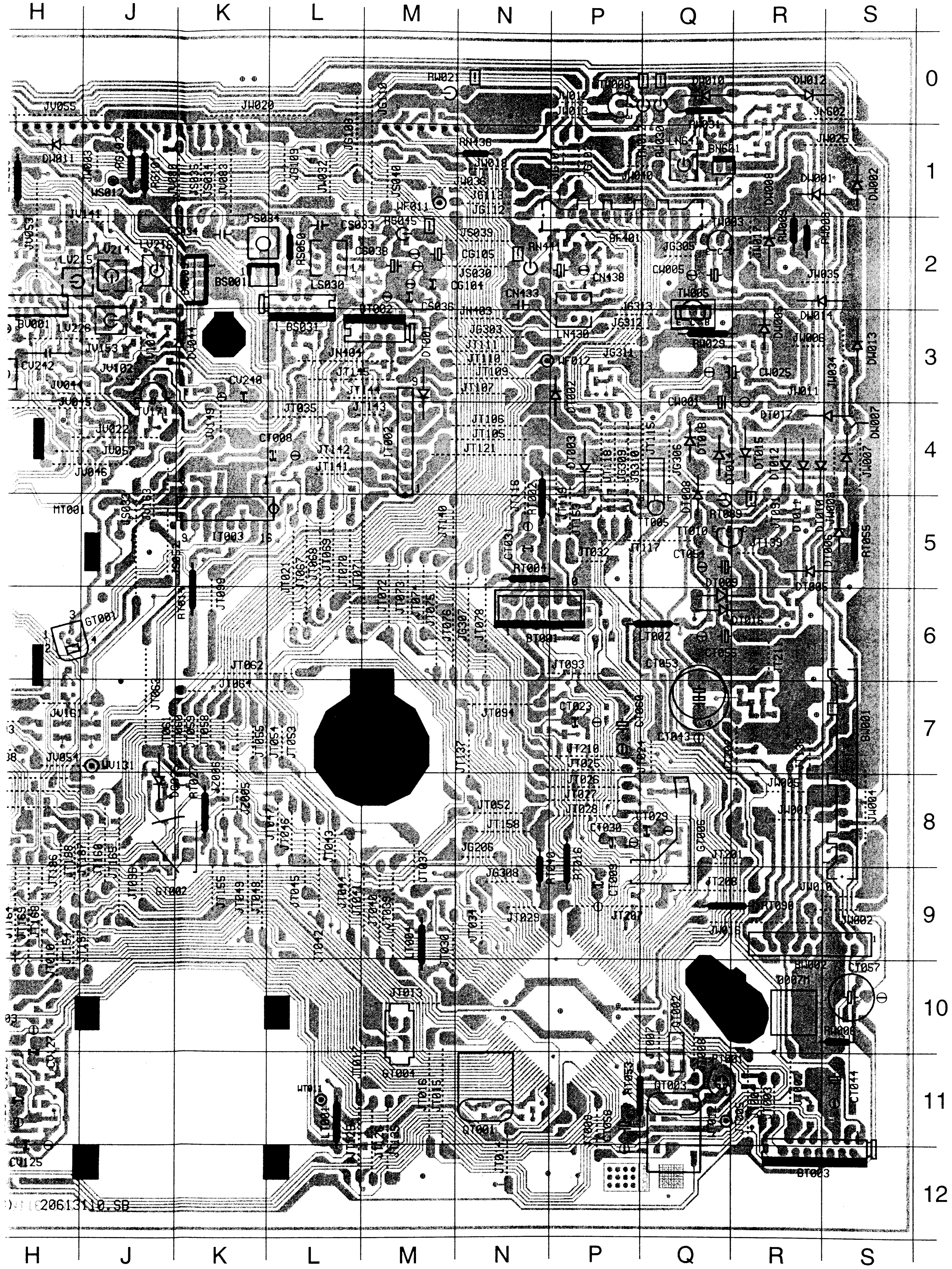
12
PCB MAIN PAL R5000 H(A) 20613110.SB

R/T 5000 HI-FI
First issue 08 / 95

Updated 09 / 97

platine principale côté composants • Hauptleiterplatte Bestückungsseite
nponenti • Platina principal lado componentes



COMPONENTS LOCATION - LOCALISATION DES ELEMENTS - LAGE DER BAUTEILE
LOCALIZZAZIONE DEGLI ELEMENTI - LOCALIZACION DE LOS COMPONENTES

* SOLDER SIDE - COTE CUIVRE - LÖTSEITE - LATO SALDATURE - LADO DEL COBRE

1 2 3

BE401	B12
BE401*	S0
BF401	P2
BF401*	D10
BN601	Q1
BN601*	B11
BS001	K2
BS001*	H10
BS030	D5
BS030*	P7
BS031	L3
BS031*	H10
BT001	N6
BT001*	D7
BT002	M2
BT002*	G10
BT003	R12
BT003*	A0
BV001	H3
BV001*	K10
BV002	C3
BV002*	Q9
BW001	S7
BW001*	A5
BW002	R9
BW005	K2
BW005*	H10

CF401*	D11
CG101*	R10
CG102*	R9
CJ104	N2
CJ105	N2
CN431*	D10
CN433	N2
CN436*	D10
CN438	P2
CN438*	D10
CN637*	P2
CN640*	C11
CN643*	B11
CN644*	B12
CN645*	C12
CN646*	C11
CS030*	G10
CS031*	G11
CS033	L2
CS034	J2
CS036	M2
CS038	L2
CS101*	Q1
CS102*	Q1
CS103*	Q1
CS104*	Q1
CS112*	R2
CS113	A10
CS116*	S1
CS118*	R1
CS121*	S1
CS122*	S3
CS123*	R1
CS124*	R2
CS131	A11
CS132*	Q1
CS133	B10
CS134*	Q2
CS135*	M11
CT001*	H8
CT002*	E7
CT003*	D7
CT004*	E6
CT005*	J7
CT006*	J8

CT007*	J7
CT008	L4
CT009	P9
CT010*	G9
CT011*	H7
CT012*	E1
CT013*	E1
CT014*	H7
CT015*	H8
CT016*	H8
CT017*	E5
CT018*	F3
CT020*	F8
CT021*	C5
CT022*	P5
CT023	P7
CT024*	D5
CT025*	D6
CT026*	D5
CT027*	C4
CT028*	D3
CT029	P8
CT030	P8
CT031	N5
CT032*	F2
CT034*	C2
CT035*	C1
CT036*	C1
CT037*	C1
CT038*	G1
CT039*	L2
CT040*	L3
CT041*	C2
CT042*	C2
CT043	Q7
CT044	S11
CT045*	C7
CT046*	C7
CT047*	B7
CT048*	B7
CT049*	B5
CT050*	C5
CT051*	C7
CT052*	C6
CT053	Q6
CT054	Q5
CT055	Q6
CT056	P11
CT060	P7
CT070*	L3
CV001*	M9
CV002*	M9
CV004*	L8
CV005	F4
CV006*	L8
CV007	F3
CV008	F4
CV009*	M8
CV010	F4
CV011*	M9
CV013*	N8
CV016	E3
CV022*	N9
CV025*	P9
CV029	D2
CV030*	P10
CV032*	N10
CV034*	N10
CV035	E2
CV036*	N10
CV037	E2
CV038	E1
CV039*	N10
CV041*	M10
CV042*	M10
CV044	F2
CV045*	M10
CV046*	L9
CV047*	M9
CV048*	M10
CV049*	M9

CV050*	L10
CV051*	M11
CV052*	N11
CV053*	N11
CV054*	N12
CV055*	N12
CV062*	P8
CV063	E5
CV064*	N8
CV065*	N8
CV067	E4
CV069	E3
CV071*	N8
CV072	E3
CV074*	N6
CV076*	N7
CV077	E5
CV078*	N7
CV079	E6
CV082*	P7
CV083*	P7
CV103*	P7
CV106	D6
CV107*	P6
CV108	C6
CV121	G12
CV122*	L2
CV123	H11
CV124*	M0
CV125	H12
CV126*	K1
CV127	H10
CV128	H11
CV135*	M2
CV139	E10
CV140*	N2
CV141*	M2
CV150*	M1
CV151*	M1
CV152*	M1
CV153*	N2
CV154*	N1
CV155*	N1
CV156*	N1
CV161*	M6
CV163*	M7
CV164	G9
CV165*	M7
CV166	F5
CV167*	M7
CV168	F5
CV169	F5
CV170*	P4
CV171*	N5
CV182*	K10
CV184*	K10
CV189*	J8
CV200*	K11
CV201	G1
CV202*	K10
CV206*	J11
CV212*	K10
CV213*	K10
CV214*	J10
CV215*	J10
CV219*	J9
CV222*	K9
CV224*	J9
CV226*	J10
CV240	K3
CV241*	L9
CV242	H3
CV243*	L9
CV244*	L10
CV245*	L10
CV246*	L10
CV247*	L9
CV248*	L10
CV249*	L11
CV250*	L10
CV251*	M10

CV252*	N11
CV254*	L11
CW001	Q3
CW005	Q2
CW007*	B10
CW025	R3
CY001*	L4
CY002*	L4
CY003*	L4
CY004*	M4
CZ005*	R6
CZ010*	R3
CZ013*	S8
CZ014	A4
CZ015	A4
CZ019*	Q4
CZ021*	S8
CZ030	A3
CZ033	A3
CZ034*	S10
CZ035*	R9
CZ036*	S10
CZ055*	S5
CZ056*	S6

DG030*	Q5
DG034*	M4
DG035	J8
DS112	B9
DT001	M3
DT002	P4
DT003	P4
DT005	R5
DT006	S5
DT008	Q4
DT009	Q5
DT010	R5
DT011	R5
DT012	R4
DT013*	B5
DT014	Q4
DT015	R4
DT016	Q6
DT017	R3
DT018	Q4
DV003	F6
DV029*	P9
DV039*	M10
DV044	K3
DV048*	L9
DV082*	P5
DV109	C4
DV110	C5
DV123*	K1
DV126*	P5
DV163	F6
DV182*	L10
DV186*	K8
DV202*	K10
DW001	R1
DW002	S1
DW005	R3
DW006*	B9
DW007	S4
DW008	R1
DW010	Q0
DW011	H1
DW012	R0
DW013	S3
DW014	R2
DZ001*	S11
DZ002*	R4
DZ003*	R4
DZ004*	R4
DZ005*	R3

FS103	D11
FS104	D11
FS105	D11
FS106	D11
FU01*	P0
FU02*	A11
FU03*	N9
FU04*	N9
FU05*	D2
FU06*	D3
FU07*	C1
FZ050	A9
FZ051	A7

IS101	C12
IS101*	Q1
IS102	B11
IS102*	R2
IT001*	D3
IT002	M4
IT002*	F8
IT003	K5
IT003*	H7
IT004	G9
IT004*	L3
IT005*	B5
IV001*	M9
IV060*	M7
IV100*	P7
IV120*	L1
IV160	E5
IV160*	M7
IV170*	P4
IV171*	M5
IY001*	L5

JG031	G9
JG036*	L3
JG037*	M3
JG101	N1
JG102	P1
JG103	C8
JG104	C4
JG105	C1
JG106	C1
JG107*	R11
JG108	L1
JG109	L1
JG110	M0
JG112	N1
JG113	N1
JG200	C7
JG201*	P3
JG202*	S7
JG203*	P3
JG204	E9
JG205*	K4
JG206	N8
JG303	N3
JG305	Q2
JG306	Q4
JG307	M6
JG308	N8
JG309	P4
JG310	P4
JG311	P3
JG312	P3
JG313	P3
JN401*	E10
JN403	N2
JN404	L3
JN602	R0

JN603*	B12
JS030	N2
JS031*	G10
JS033	J5
JS034	K1
JS035	K1
JS036*	K5
JS037*	K6
JS038	G6
JS039	N2
JS040	M1
JS043*	G9
JS044	G6
JS050*	K6
JS051*	J6
JS052	J5
JS101*	P1
JS102*	R1
JS103*	Q1
JS104	D9
JS107*	R2
JS108*	S2
JS109*	S2
JS110*	G11
JS112*	R0
JS113*	R1
JS115	C9
JS116*	R1
JT001*	A2
JT002	R11
JT003	R11
JT004	R11
JT005	R11
JT006*	B8
JT007	Q10
JT008	Q10
JT009	P11
JT010	H9
JT011	E9
JT013	M10
JT014	N11
JT015	M11
JT016	M11
JT017	L11
JT018*	G9
JT019*	D6
JT020*	D6
JT021	L5
JT023*	H8
JT024	P7
JT025	P7
JT026	P7
JT027	P8
JT028	P8
JT029	N9
JT030	M9
JT031*	D6
JT032	P5
JT033*	C6
JT034	N9
JT035	L3
JT036*	F3
JT037	M8
JT038*	F3
JT039	M9
JT040	M9
JT041	L9
JT042	L9
JT043	L8
JT044	L9
JT045	L9
JT046	L8
JT047	L8
JT048	K9
JT049	K9
JT051*	L3
JT052	N8
JT053	L7
JT054	L7
JT055	K7
JT056*	G8

JT058	K7
JT059	K7
JT060	K7
JT061	J7
JT062	K6
JT063	J7
JT064	K6
JT066*	H6
JT067	L5
JT068	L5
JT069	L5
JT070	L5
JT071	L5
JT072	M6
JT073	M6
JT074	M6
JT075	M6
JT076	M6
JT078	N6
JT079*	D6
JT080*	E1
JT082*	E5
JT083*	E8
JT084*	K0
JT086*	G8
JT087*	G8
JT089*	J3
JT091	R5
JT092*	E5
JT093	P6
JT094	N7
JT096	J9
JT097*	K3
JT099	K6
JT102*	K3
JT105	N4
JT106	N4
JT107	N3
JT108*	E9
JT109	N3
JT110	N3
JT111	N3
JT112*	B6
JT115	Q4
JT116	N4
JT117	P5
JT118	P4
JT119	P5
JT121	N4
JT122*	G3
JT123*	E4
JT124*	K2
JT125	L11
JT126	M11
JT128*	K3
JT129*	L3
JT130*	L3
JT132*	K5
JT134*	M3
JT135	M11
JT136*	G3
JT137	N7
JT138	R7
JT139	R5
JT140	M5
JT141	L4
JT142	L4
JT143	L3
JT144	L3
JT145	L3
JT148*	K0
JT149	G9
JT151	G8
JT152	E8
JT153	P5
JT154	H9
JT155	K9
JT158	N8
JT159	E9
JT160	J8
JT161*	K2

JT163	G9
JT164	H9
JT165	J8
JT166	H9
JT167	G9
JT168	H9
JT169	H9
JT171*	E5
JT174*	K2
JT175*	K3
JT176*	E4
JT177*	K4
JT179*	H5
JT183	G8
JT184	G7
JT186	H9
JT187	J8
JT188	H8
JT189	G12
JT190*	A2
JT191*	B1
JT192*	A1
JT193*	B1
JT194*	C1
JT201	Q8
JT202	Q7
JT203*	B7
JT206*	C4
JT207	P9
JT208	Q9
JT209*	G9
JT210	P7
JT211	R6
JT212*	K4
JT213*	K4
JT214*	K4
JT215*	J4
JT217*	G8
JV001*	L9
JV002	C6
JV003	C2
JV004	C2
JV005	C3
JV006	C3
JV007	C3
JV008	C3
JV009	C3
JV010	C3
JV011	G1
JV012	C4
JV013	D1
JV014	D1
JV015	D1
JV016	D1
JV017	D4
JV018	D4
JV019	D4
JV020	G1
JV021	F1
JV022	J4
JV024	E4
JV025	G4
JV026	G4
JV027	F3
JV028	D7
JV029	D6
JV030	D6
JV031	E6
JV032	F6
JV034	G6
JV035	C1
JV036	C1
JV037*	Q10
JV038	H7
JV039	E9
JV040	D1
JV041	C1
JV042	B1
JV043*	M8
JV044	H3
JV045	H3

JV046	J4
JV047	F2
JV048	G2
JV049	G2
JV051	F1
JV052	F6
JV053	H2
JV054	H7
JV055	H0
JV056*	Q11
JV057	J4
JV058*	Q10
JV060*	H9
JV061*	Q9
JV062*	N3
JV065*	P8
JV066*	K10
JV068*	Q10
JV069*	P8
JV070*	N6
JV071*	N6
JV074*	N4
JV075*	N4
JV076*	P9
JV077*	M5
JV078*	Q10
JV079*	Q9
JV080	J1
JV083	K1
JV085	C4
JV086	F1
JV087	D1
JV089*	N3
JV090*	N5
JV094*	J8
JV095*	Q10
JV096	E8
JV097	F7
JV098	D5
JV099	F8
JV100	C4
JV101*	K9
JV102	J3
JV103	J3
JV104	G11
JV105	E7
JV108	F7
JV109	E11
JV110	F9
JV111	E7
JV112	F9
JV113	F8
JV114	E7
JV115	G11
JV117*	R10
JV118	E8
JV120	D8
JV122	E7
JV123*	P5
JV126*	K1
JV129*	P7
JV130*	P8
JV131*	K9
JV139	F7
JV140*	M8
JV141	H1
JV142	G3
JV143	E9
JV144	F11
JV145*	M2
JV148	F11
JV149	K4
JV150	E7
JV151	F8
JV152	E7
JV153	J3
JV154	G6
JV155*	M2
JV156*	M2
JV158*	P10
JV159*	L9
JV160	G7
JV161	H7
JV162*	H7
JV163	J5
JV165	F6
JV215	H2
JW001	R8

JW002	S9
JW003	J1
JW004	S8
JW005	R7
JW006	R3
JW007	S4
JW008	S5
JW009*	H9
JW010	R9
JW011	R3
JW012	P0
JW013	P0
JW014*	H10
JW015*	B3
JW016	Q9
JW017	R2
JW018	N1
JW019*	D12
JW020	K0
JW025	R1
JW026*	F12
JW027*	A3
JW032	L1
JW034	S3
JW035	R2
JW036	N1
JW040	P1
JW041*	K12
JY002	G8
JY003	H7
JY004	G7
JY006*	K5
JY007*	J5
JY008*	J5
JY009*	K5
JY010*	K5
JY011*	J5
JY012*	L5
JZ001	A2
JZ002	D7
JZ003*	S10
JZ004	C10
JZ005	K8
JZ006	K8
JZ007*	R8
JZ008*	R4
JZ009*	R12
JZ010*	R2
JZ011	C8
JZ012	C8
JZ014*	R10
JZ015*	R5
JZ016	C6
JZ017*	R8
JZ018	A10
JZ019*	R5
JZ020*	P11
JZ021	C9
JZ022*	S8
JZ023*	H4
JZ024*	K3
JZ025*	K3
JZ030*	P11
JZ040*	R5
JZ041*	R9
JZ042*	S9
JZ045*	S7
JZ046	C9
JZ048	B5
JZ049	B6
JZ051	F1
JZ052	C1
JZ053*	Q11
JZ061	B10
JZ062*	Q2
JZ070	B7
JZ071	C9
JZ072*	P3
JZ073*	Q2

LN430	P2
LN430*	D9
LN640	E11
LN641	Q1
LS030	L2

LS030*	G11
LT001	L11
LT002	Q6
LT004	M9
LV008	F4
LV023*	P3
LV033	E2
LV050	G2
LV052	E1
LV053	E1
LV063	D4
LV078	E6
LV082	E5
LV107	D6
LV123	F12
LV151	E11
LV153	F10
LV155	E10
LV162	F5
LV200	H1
LV214	J2
LV216	J2
LV226	H3
LV243	G3
LV245	G3
LV246	G2
LV247	G3
LV248	G1
LV251	F2
LZ001	A1
LZ002	A1
LZ030	A2
LZ031	A2
LZ050	A9
LZ051	A8
LZ055	A7

PS034	K1
PT001	Q10
PV251	F2

QS101	B11
QS102	B11
QS103	B12
QS104	B11
QT001	N11
QT002	Q10
QT003	Q11
QV028	E3
QV032	D2

RG030*	J4
RG031*	J5
RG032*	M4
RG033*	M4
RG034*	M4
RG035*	M3
RG036*	L3
RG037*	Q11
RG038*	R11
RG101	J1
RG102	J1
RG105*	R7
RG106*	Q7
RG107*	Q5
RG108*	Q5
RG109*	E11
RG111*	J11
RG112*	F11
RN431*	D10
RN436	N1
RN437*	E11
RN439*	D10
RN440*	D10
RN441	N2
RN640*	B12
RN641*	C11

RN642*	C11
RN643*	B11
RN644*	B11
RN645*	B12
RN646*	B12
RS030*	F10
RS031*	F10
RS035*	H10
RS036*	F11
RS039*	F10
RS040*	F10
RS042*	G10
RS043*	G10
RS044*	H11
RS045	M1
RS050	L2
RS051*	H10
RS101*	Q1
RS102*	R1
RS103*	R1
RS104*	R1
RS105*	Q1
RS106*	R1
RS112*	R2
RS113*	P1
RS114*	P2
RS115*	P1
RS116*	P1
RS119*	R1
RS120*	S3
RS121*	R1
RS122*	Q1
RS127*	Q1
RS128*	Q1
RS130*	Q4
RS901*	R1
RS904*	S2
RS905*	Q2
RS982*	Q1
RS983*	Q1
RT001*	G8
RT002	N4
RT002*	L3
RT003*	E7
RT004	N5
RT005*	E6
RT006*	E6
RT007*	G8
RT008*	H8
RT009*	H8
RT010*	G9
RT011*	G9
RT012*	M0
RT013*	E1
RT014	K6
RT015*	H7
RT016	P8
RT017*	F3
RT018*	F3
RT019*	F9
RT020*	F8
RT021*	G9
RT022*	G8
RT023*	F9
RT024*	F9
RT025*	F10
RT026*	G8
RT027	K8
RT030*	H4
RT031*	J3
RT032*	L2
RT033*	K3
RT034*	C4
RT035*	C5
RT036*	D8
RT037*	D8
RT038*	D7
RT039*	D8
RT040	N8
RT041*	D5
RT042*	D4
RT043*	D5
RT044*	D5
RT045*	D5
RT046*	C4
RT047*	C4
RT048*	C4
RT049*	C3

RT050*	H4
RT051*	H4
RT052*	B4
RT053	P11
RT055	S5
RT058*	E11
RT059*	E11
RT063*	L2
RT064*	L2
RT065*	K3
RT067*	G1
RT068*	F1
RT069*	D1
RT071*	B4
RT072*	B6
RT073*	B6
RT074*	B6
RT075*	C5
RT081*	C5
RT082*	L3
RT083*	G0
RT084*	C1
RT085*	C1
RT086*	G0
RT088*	B7
RT089	Q5
RT090	R9
RT091*	D5
RV001*	L9
RV002*	M9
RV003*	L8
RV004*	K8
RV005*	M8
RV006*	M8
RV007*	M8
RV008*	L8
RV010*	M6
RV011*	M8
RV020*	H8
RV021*	P9
RV022*	P9
RV023*	N9
RV024*	N5
RV025*	P9
RV026	C5
RV027*	P9
RV028*	N10
RV029*	P10
RV030*	P10
RV032*	P10
RV035*	R9
RV036*	N10
RV041*	N10
RV044*	M9
RV045*	M9
RV046*	M9
RV047*	L10
RV048*	Q10
RV049*	M9
RV050*	L10
RV051*	N11
RV052*	M12
RV053*	K11
RV054*	N11
RV055*	N12
RV056*	N11
RV067	E4
RV070*	P8
RV071*	P8
RV072*	N8
RV073*	P6
RV074*	N6
RV075*	P6
RV076*	N7
RV077*	N7
RV104*	P9
RV105*	P6
RV106*	P6
RV109*	P6
RV110*	P6
RV111*	L4
RV112*	P6
RV120*	M1
RV121*	L1
RV122*	L1
RV123*	K1
RV124*	K1
RV125*	K2

RV126*	P6
RV127*	P5
RV128*	K1
RV129*	K2
RV130*	L2
RV131*	K1
RV135	G11
RV137*	N2
RV138*	M2
RV139*	M3
RV140*	N2
RV141*	N2
RV142*	M2
RV143*	M2
RV144	G10
RV145*	M3
RV146*	N2
RV147*	M2
RV148*	M3
RV150*	M1
RV151*	M1
RV154*	N1
RV160*	M7
RV161*	M6
RV163*	M7
RV164*	L4
RV165*	L4
RV166*	M7
RV167*	M7
RV168*	M7
RV169*	Q4
RV170*	J9
RV171*	H9
RV181*	L10
RV182*	K9
RV183*	J9
RV184*	K9
RV185*	K9
RV186*	J8
RV187*	K8
RV188*	K9
RV189*	J8
RV190*	J8
RV191*	K9
RV192*	K9
RV194*	J8
RV200*	L10
RV201*	K11
RV202*	K10
RV203*	K10
RV204*	K11
RV206*	K11
RV213*	J10
RV214*	J10
RV215*	J10
RV221*	J9
RV222*	J9
RV223*	J9
RV224*	J9
RV225*	J9
RV227*	J10
RV241*	L9
RV242*	K9
RV243*	L9
RV244*	L9
RV245*	L10
RV247*	L9
RV248*	L10
RV249*	L11
RV250*	L10
RV251*	L10
RV252*	M11
RV253*	M10
RV254*	M10
RV255*	M11
RV256*	M11
RV257*	M10
RV285*	K10
RW001*	D9
RW002*	C9
RW005*	A4
RW006	S10
RW008	R2
RW009	R2
RW012	P1
RW017*	A5
RW019*	C10
RW020*	B10

RW021	M0
RW024*	B9
RW025*	B9
RW029	Q3
RW030	Q1
RW031	Q0
RW032*	B4
RW033*	C9
RY001*	L4
RY002*	L4
RY003*	L4
RY004*	L4
RY006*	L4
RY007*	L4
RY009*	L4
RY010*	L5
RY011*	M5
RZ002*	P11
RZ003*	P11
RZ005*	R4
RZ007*	H4
RZ008*	H4
RZ010*	R3
RZ015	A4
RZ019*	R5
RZ020*	S6
RZ030*	R10
RZ031*	R10
RZ033*	S10
RZ034*	R10
RZ035*	R10
RZ036*	R10
RZ037*	S11
RZ050*	S3
RZ051*	S3
RZ052*	S5
RZ053*	S5
RZ054*	R3
RZ055*	S10
RZ056*	S5
RZ057*	S6
RZ059*	R4
RZ060*	R11
RZ065	G1
RZ066	G1

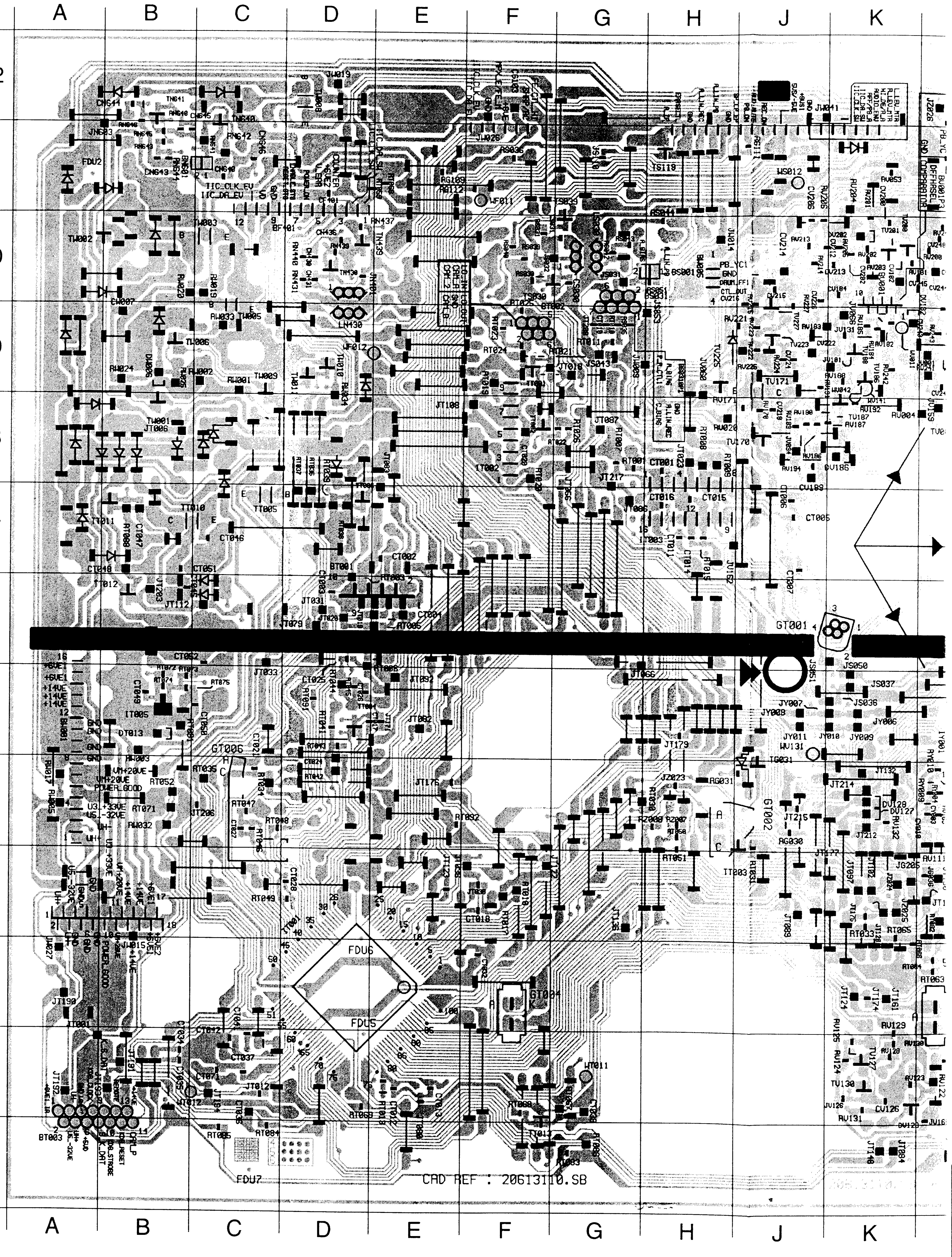
ST001	E12
ST001*	N0

GT001	J6
GT001*	J6
GT002	J9
GT002*	J4
GT003	H10
GT003*	L2
GT004*	F2
GT005	D7
GT005*	P4
GT006	Q8
GT006*	C5
TG029*	M5
TG030*	M4
TG031*	J5
TN438*	D10
TN439*	E10
TN640*	C12
TN641*	B12
TS030*	F10
TS039*	G11
TS101*	Q3
TS119*	H11
TT001*	F9
TT002*	F8
TT003*	J3
TT004*	D5
TT005	P5
TT005*	C7
TT006*	D8
TT010	Q5

TT010*	C7
TT011*	B7
TT012*	B7
TT013*	F1
TV002*	L8
TV003*	M8
TV006*	M8
TV011*	M8
TV024*	N5
TV028*	N10
TV030*	P10
TV036*	N11
TV047*	M10
TV055*	N11
TV103*	Q6
TV126*	P5
TV127*	K1
TV130*	K1
TV135*	M2
TV140*	M2
TV141*	N2
TV143*	M2
TV145*	M2
TV147*	M3
TV149*	N3
TV154*	N2
TV164*	M4
TV170*	J8
TV171	J3
TV171*	J9
TV186*	K9
TV187*	K8
TV188*	K9
TV200*	K11
TV201*	K11
TV223*	J9
TV225*	H9
TV227*	J10
TV243*	L9
TV248*	L10
TV250*	M11
TV251*	M10
TW001*	B8
TW002*	A10
TW003	Q1
TW003*	C10
TW005	Q2
TW005*	C9
TW006*	B9
TW008	P0
TW008*	D12
TW009*	C9
TZ001*	R4
TZ002*	Q3
TZ010*	R2
TZ019*	R4
TZ020*	R6
TZ031*	S9
TZ032*	R11
TZ050*	R3
TZ051*	S4
TZ055*	S5
TZ057*	R10

WS011	C10
WS011*	Q2
WS012	J1
WS012*	J11
WV011	G3
WV011*	K9
WV012	C3
WV012*	R9
WV021	D4
WV021*	P9
WV022	D3
WV022*	P9
WV031	C8
WV031*	Q4
WV032	F6
WV032*	M6

Main P.C.B. Solder side • Circuit imprimé de la platine principale
Piastra principale lato saldature • Platina princ



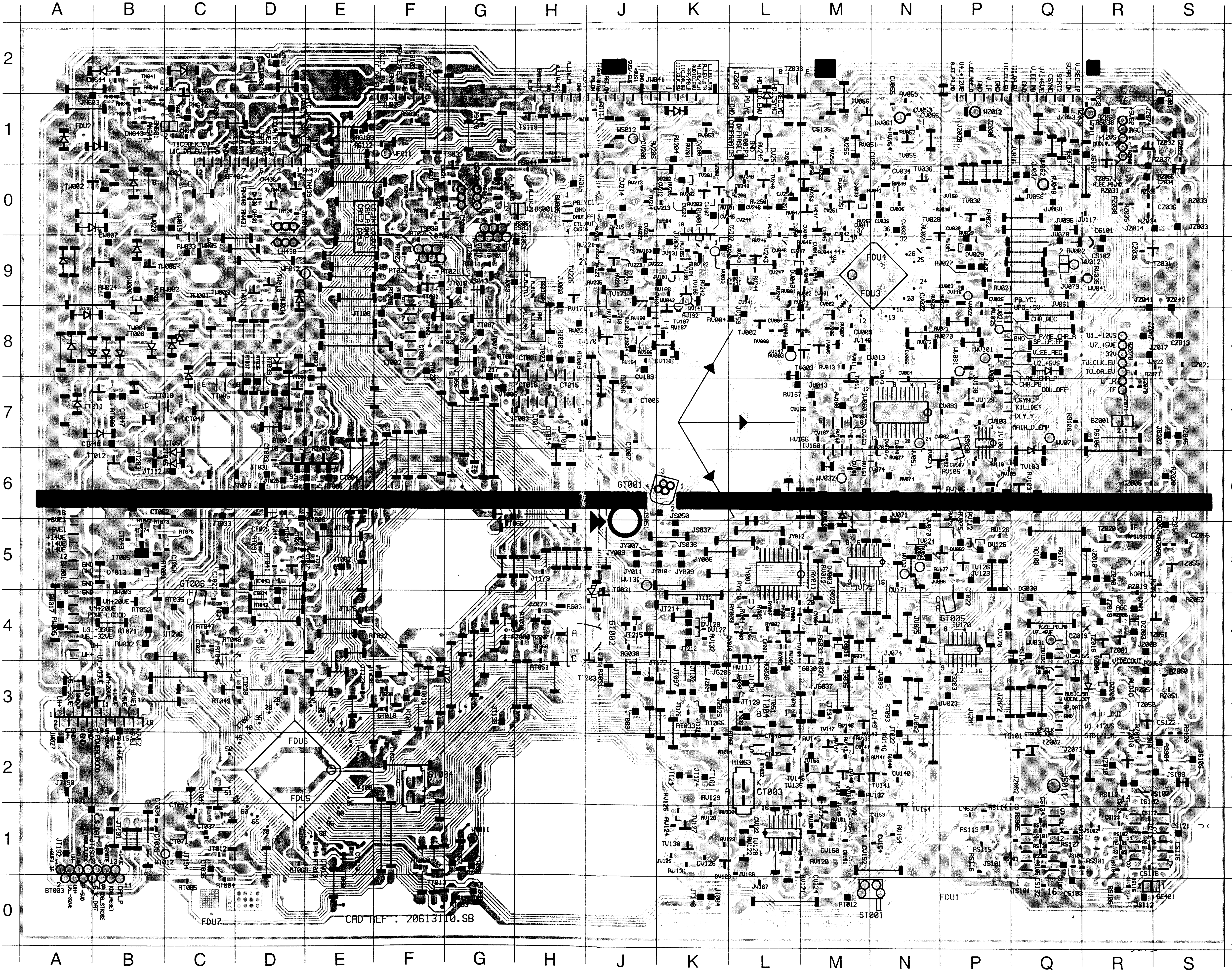
10*	C7
11*	B7
[illegible]	[illegible]
13*	[illegible]
02*	L8
03*	M8
06*	M8
11*	M8
24*	N5
28*	N10
30*	P10
36*	N11
47*	M10
55*	N11
03*	Q6
26*	P5
27*	K1
30*	K1
35*	M2
40*	M2
41*	N2
43*	M2
45*	M2
47*	M3
49*	N3
54*	N2
64*	M4
70*	J8
71	J3
71*	J9
86*	K9
87*	K8
88*	K9
00*	K11
01*	K11
23*	J9
25*	H9
27*	J10
43*	L9
48*	L10
50*	M11
51*	M10
001*	B8
002*	A10
003	Q1
003*	C10
005	Q2
005*	C9
006*	B9
008	P0
008*	D12
009*	C9
01*	R4
02*	Q3
10*	R2
19*	R4
20*	R6
31*	S9
32*	R11
50*	R3
51*	S4
55*	S5
57*	R10

●—

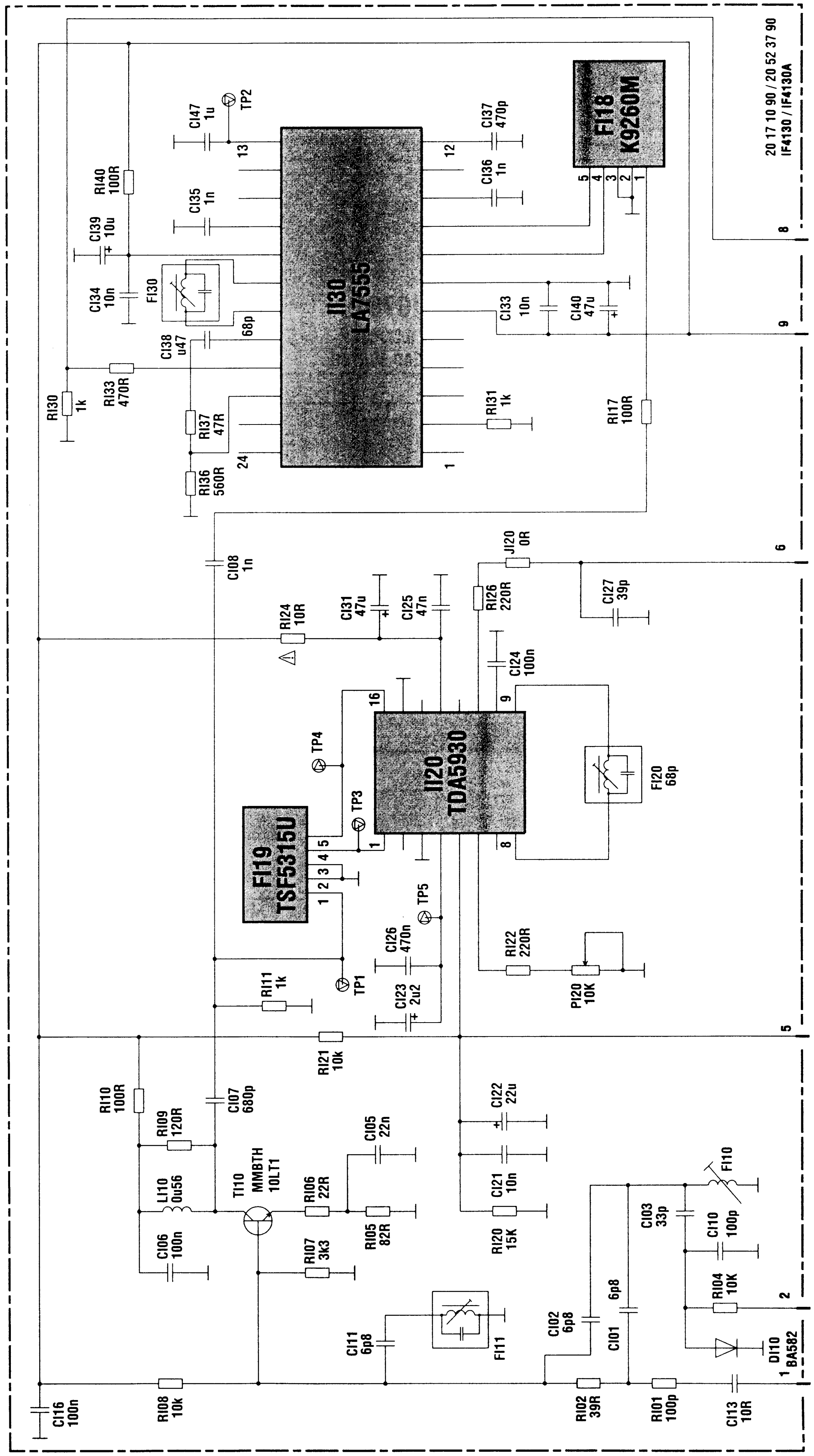
011	C10
011*	Q2
012	J1
012*	J11
011	G3
011*	K9
012	C3
012*	R9
021	D4
021*	P9
022	D3
022*	P9
031	C8
031*	Q4
032	F6
032*	M6

Main P.C.B. Solder side • Circuit imprimé de la platine principale côté cuivre • Hauptleiterplatte Lötseite

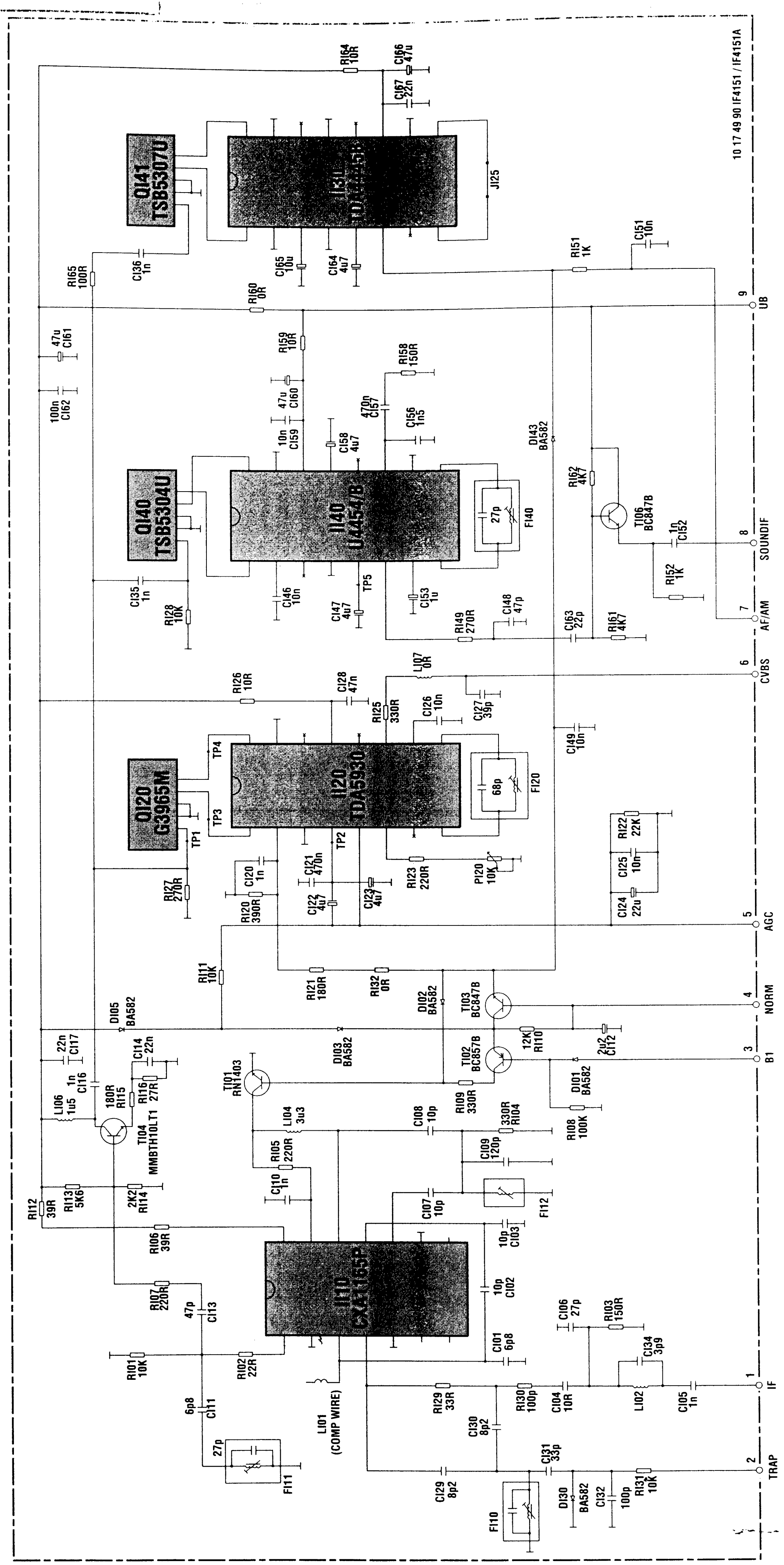
Piastra principale lato saldatura • Platina principal lado del cobre


A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
S
12
11
10
9
8
7
6
5
4
3
2
1
0
FDU2
FDU3
FDU4
FDU5
FDU6
FDU7
FDU1
GT001
ST001
CAD REF : 20613110.SB

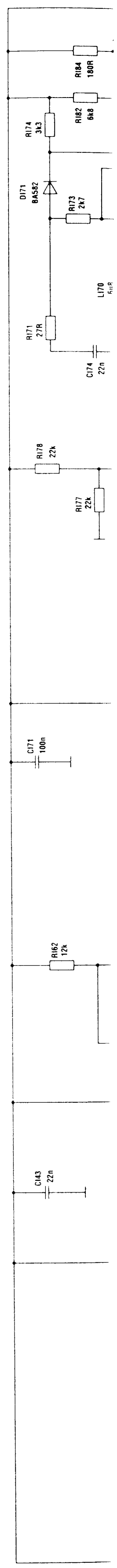
IF 4130 / 4130 A


20 17 10 90 / 20 52 37 90
IF4130 / IF4130A
I130
LA7555
F118
K9260M
I120
TDA5930
F119
TSF5315U
F130
F120
F110
F111
T110
MMBTH10LT1
SOUND/IF
UB
CVBS
AGC
TRAP
IF

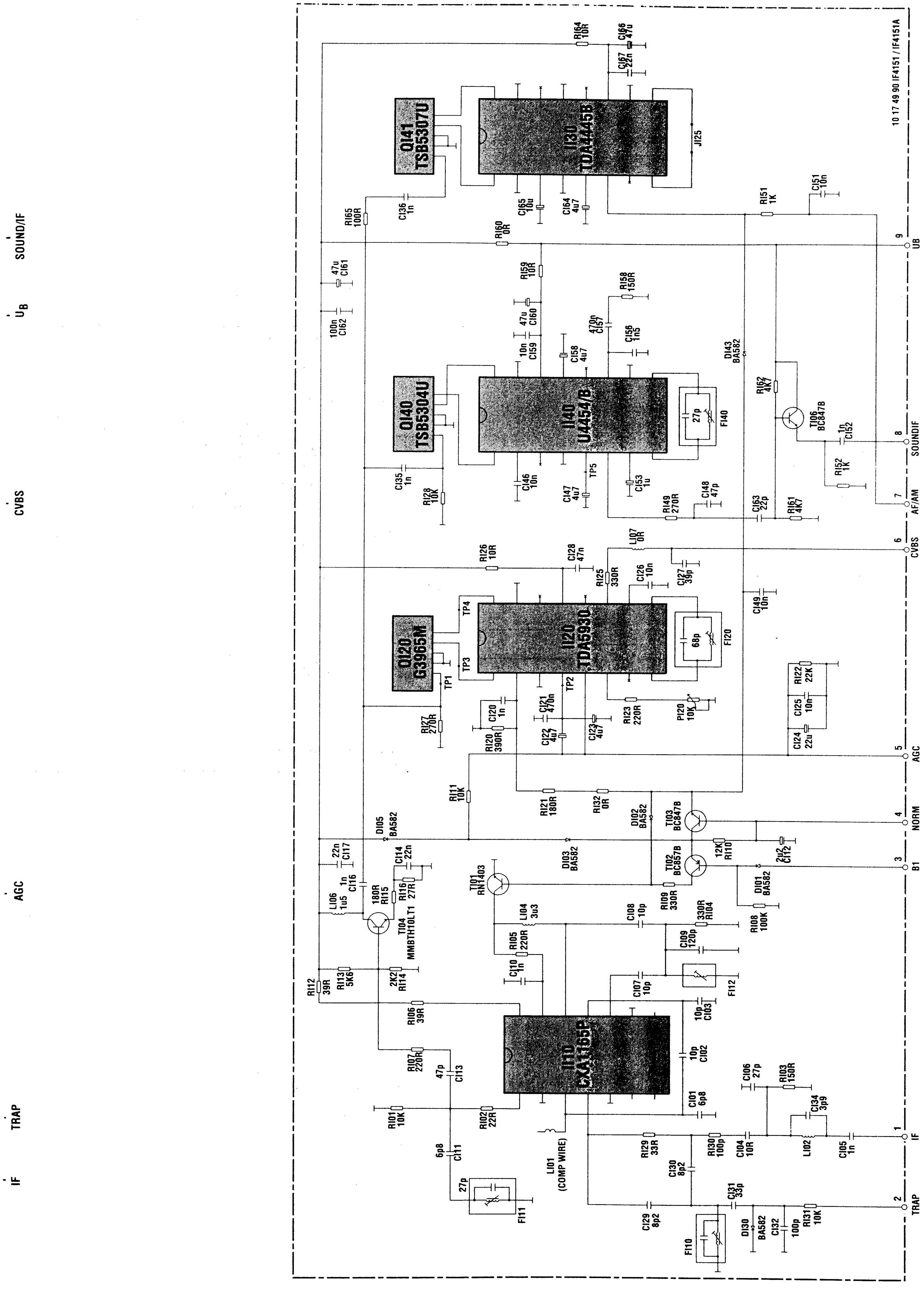
IF 4151 / 4151 A


10 17 49 90 IF4151 / IF4151A
Q141
TSB5307U
Q140
TSB5304U
I140
Q120
G3965M
I120
TDA5930
T106
BC847B
T103
BC847B
T102
BC857B
T101
RN1403
T104
MMBTH10LT1
L101
(COMP WIRE)
UB
SOUNDIF
AF/AM
CVBS
AGC
NORM
B1
IF
TRAP

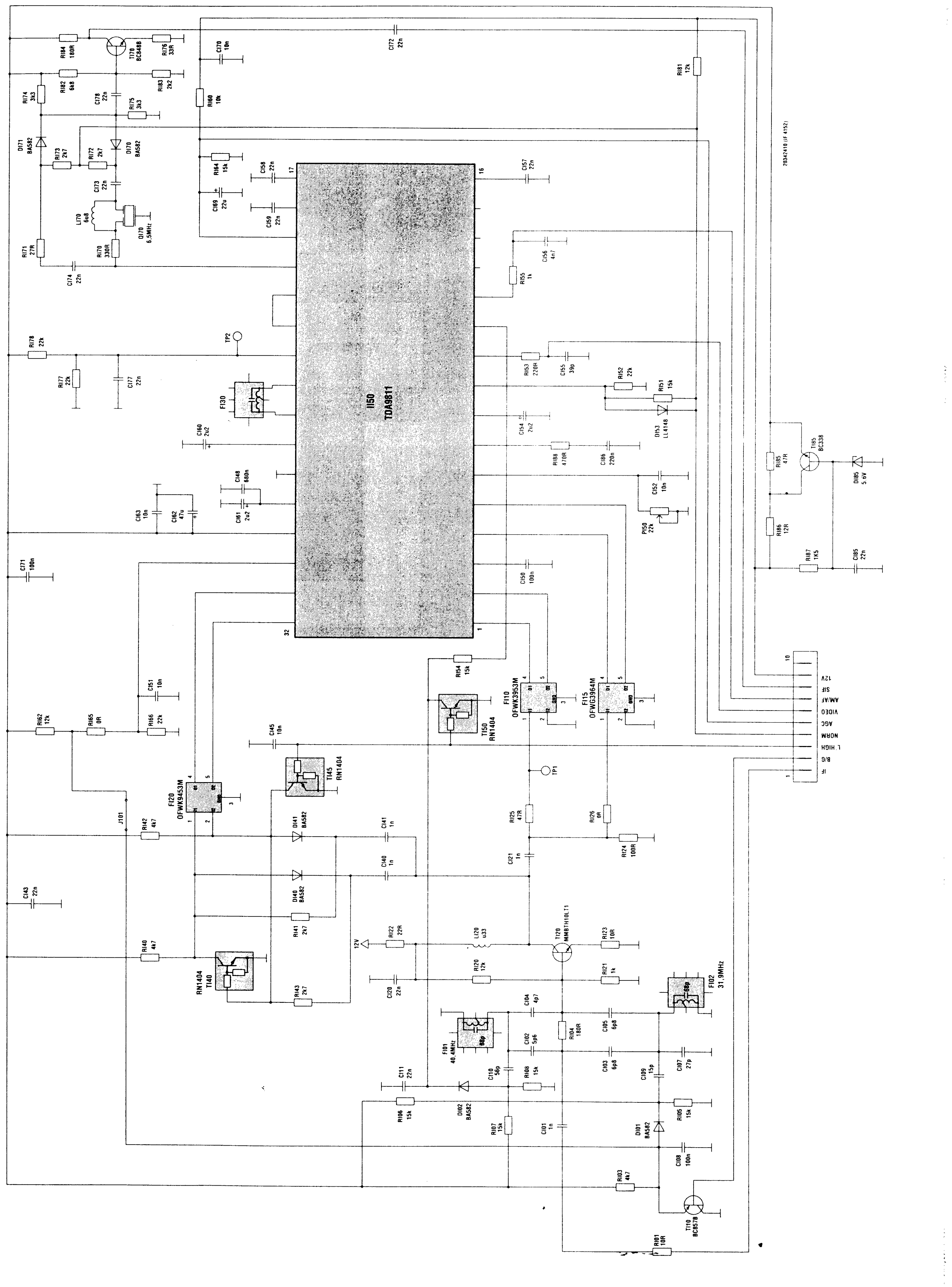
IF 4152



IF 4151 / 4151 A

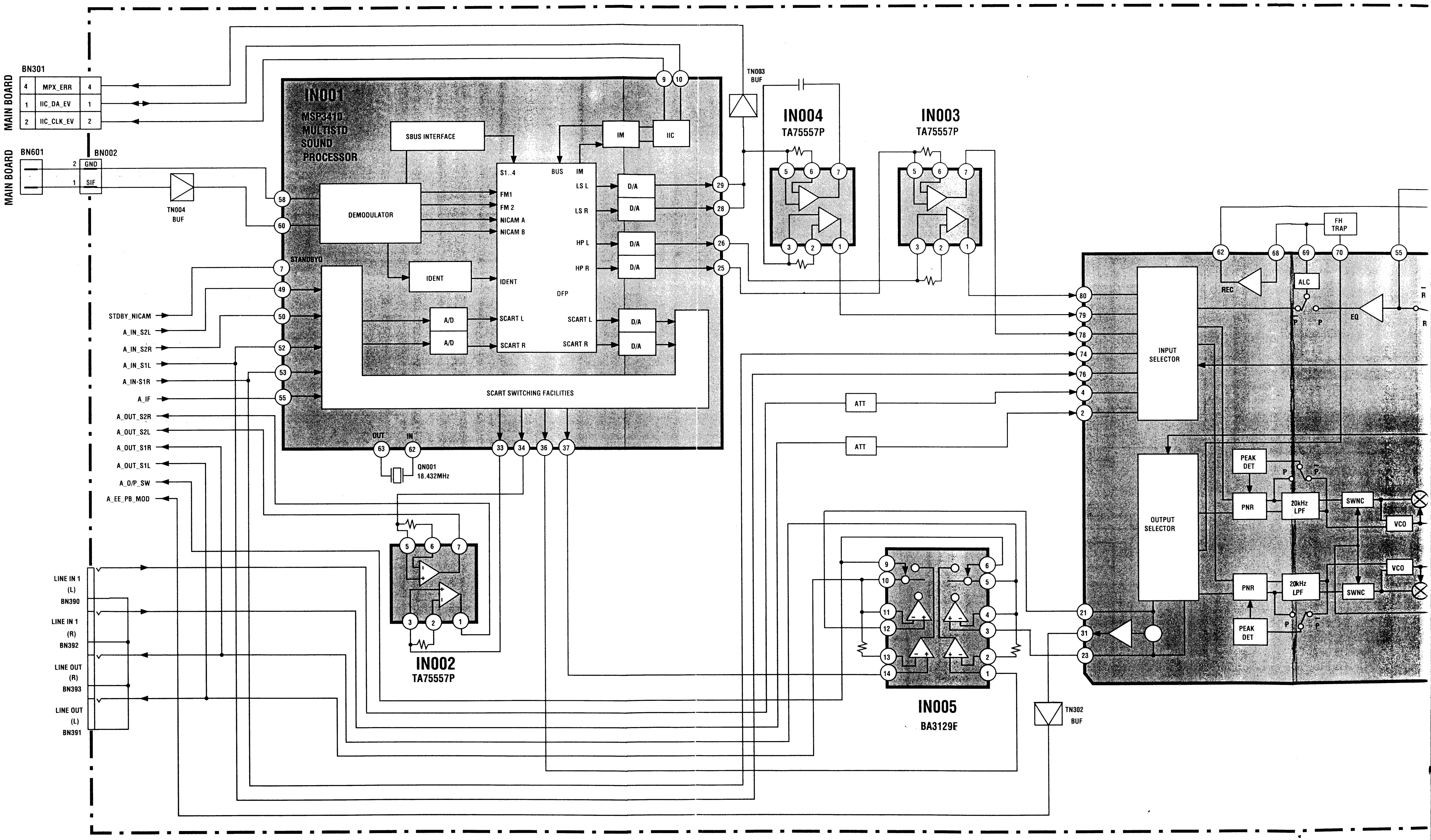

10 17 49 90 IF4151 / IF4151A
Q141 TSB5307U
I130 TDA4445B
Q140 TSB5304U
I140 U4454/B
Q120 G3965M
I120 TDA5930
I110 CA1165B
T106 BC847B
T103 BC847B
T102 BC857B
T101 RN1403
T104 MMBTH10LT1
L101 (COMP WIRE)
9 UB
8 SOUNDIF
7 AF/AM
6 CVBS
5 AGC
4 NORM
3 B1
1 IF
2 TRAP
SOUND/IF
UB
CVBS
AGC
TRAP
IF

IF 4152


I150 TDA9811
F110 OFWK3953M
F115 OFWK3954M
F120 OFWK9453M
T150 RN1404
T145 RN1404
T140 RN1404
T120 MMBTH10LT1
T110 BC857B
T165 BC338
F101 40.4MHz
F102 31.9MHz
TP1
TP2
12V
SIF
AM/AF
VIDEO
AGC
NORM
L HIGH
B/G
IF

AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO

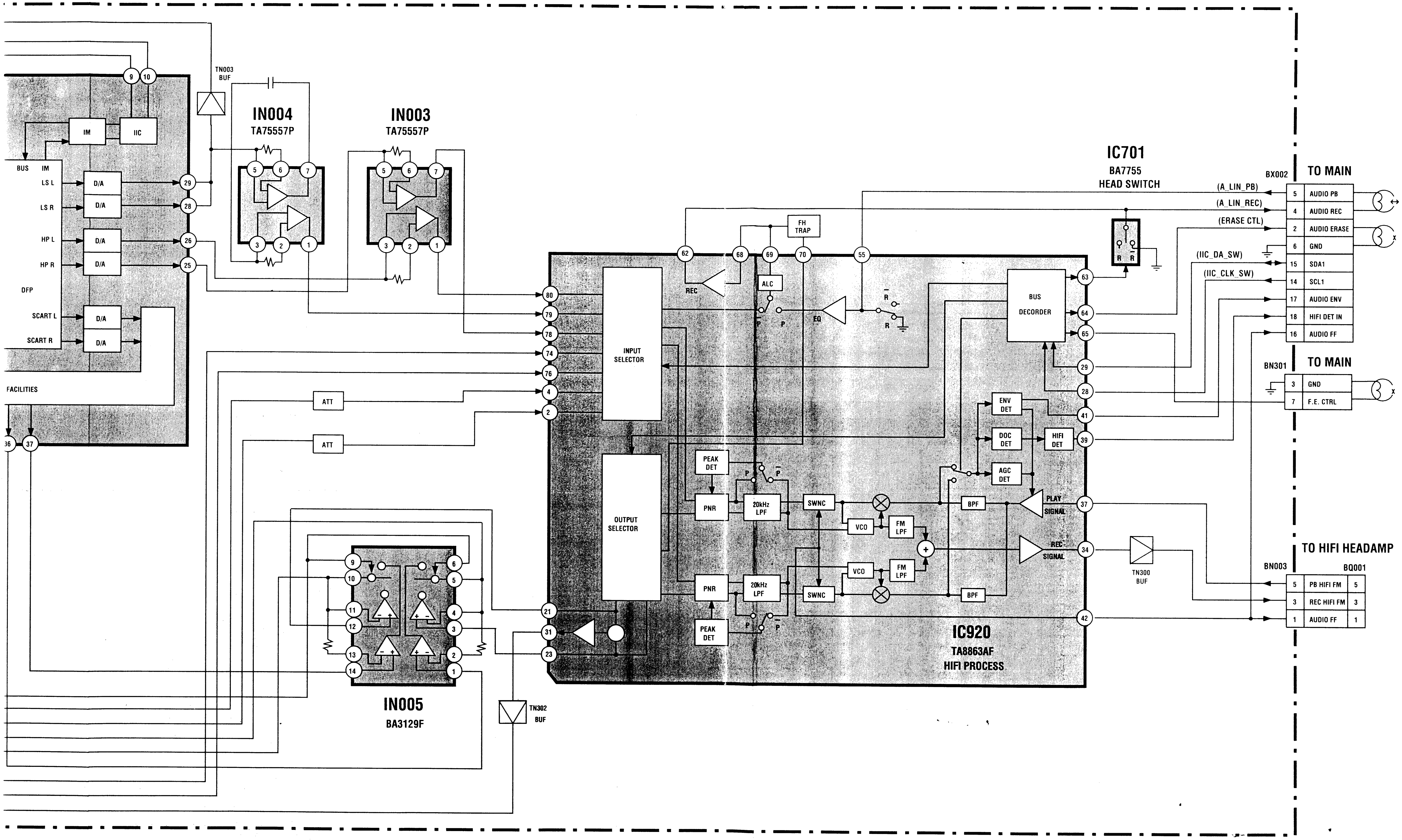
BLOCK DIAGRAM - SCHEMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



MAIN BOARD
BN301
4 MPX_ERR 4
1 IIC_DA_EV 1
2 IIC_CLK_EV 2
MAIN BOARD
BN601
BN002
2 GND
1 SIF
TN004
BUF
IN001
MSP3410
MULTISTD
SOUND
PROCESSOR
SBUS INTERFACE
IM
IIC
9
10
TN003
BUF
DEMODULATOR
S1..4
BUS
IM
FM1
FM 2
NICAM A
NICAM B
LS L
LS R
HP L
HP R
D/A
IDENT
DFP
A/D
SCART L
SCART R
STANDBYQ
58
60
7
49
50
52
53
55
29
28
26
25
STDBY_NICAM
A_IN_S2L
A_IN_S2R
A_IN_S1L
A_IN-S1R
A_IF
A_OUT_S2R
A_OUT_S2L
A_OUT_S1R
A_OUT_S1L
A_O/P_SW
A_EE_PB_MOD
SCART SWITCHING FACILITIES
OUT
IN
63
62
33
34
36
37
QN001
18.432MHz
IN004
TA75557P
IN003
TA75557P
5 6 7
3 2 1
IN002
TA75557P
ATT
ATT
IN005
BA3129F
9 10 11 12 13 14
6 5 4 3 2 1
TN302
BUF
LINE IN 1
(L)
BN390
LINE IN 1
(R)
BN392
LINE OUT
(R)
BN393
LINE OUT
(L)
BN391
80
79
78
74
76
4
2
21
31
23
62
68
69
70
55
FH
TRAP
REC
ALC
EQ
P
R
INPUT
SELECTOR
OUTPUT
SELECTOR
PEAK
DET
PNR
20kHz
LPF
SWNC
VCO

I / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO HIFI / SCART

A BLOCCHI - ESQUEMA DE BLOQUES



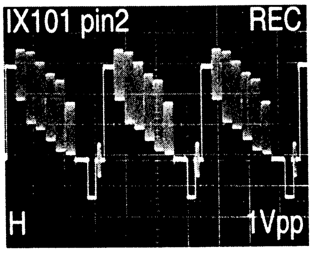
9
10
IM
IIC
BUS
IM
LS L
LS R
HP L
HP R
DFP
SCART L
SCART R
D/A
FACILITIES
29
28
26
25
36
37
TN003
BUF
IN004
TA75557P
IN003
TA75557P
5
6
7
3
2
1
ATT
ATT
IN005
BA3129F
9
10
11
12
13
14
6
5
4
3
2
1
TN302
BUF
80
79
78
74
76
4
2
21
31
23
INPUT SELECTOR
OUTPUT SELECTOR
62
68
69
70
55
REC
FH TRAP
ALC
P
R
EQ
PEAK DET
PNR
20kHz LPF
SWNC
VCO
FM LPF
BPF
ENV DET
DOC DET
AGC DET
HIFI DET
BUS DECORDER
PLAY SIGNAL
REC SIGNAL
63
64
65
29
28
41
39
37
34
42
IC920
TA8863AF
HIFI PROCESS
IC701
BA7755
HEAD SWITCH
TN300
BUF
(A_LIN_PB)
(A_LIN_REC)
(ERASE CTL)
(IIC_DA_SW)
(IIC_CLK_SW)
BX002
TO MAIN
5 AUDIO PB
4 AUDIO REC
2 AUDIO ERASE
6 GND
15 SDA1
14 SCL1
17 AUDIO ENV
18 HIFI DET IN
16 AUDIO FF
BN301
TO MAIN
3 GND
7 F.E. CTRL
TO HIFI HEADAMP
BN003
BQ001
5 PB HIFI FM 5
3 REC HIFI FM 3
1 AUDIO FF 1

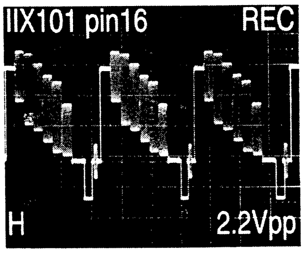
MEASUREMENTS AUDIO HIFI / SCART CONNECTION - MESURES AUDIO HIFI / PRISES SCART - MESSUNGEN LEITERPLATTE AUDIO HIFI / SCART - MISURE AUDIO HIFI / SCART - MEDIDAS AUDIO HIFI / SCART

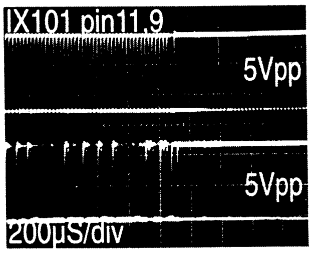
TMB		MODE		
LOC	PIN	EE	PLAY	REC.
IN001	1	0	0	0
	2	3.8	3.6	3.8
	3	3.8	3.6	3.8
	4	0	0	0
	5	5	5	5
	6	0	0	0
	7	5.8	5.8	5.8
	8	0	0	0
	9	4.6	4.6	4.6
	10	4.2	4.2	4.2
	11	2.5	2.5	2.5
	12	2.5	2.5	2.5
	13	4	4	4
	14	2.4	2.4	2.4
	15	2.4	2.4	2.4
	16	2.4	2.4	2.4
	17	1.6	1.6	1.6
	18	5	5	5
	19	0	0	0
	20	1.6	1.6	1.6
	21	-	-	-
	22	2.5	2.5	2.5
	23	-	-	-
	24	5	5	5
	25	2	2	2
	26	2	2	2
	27	0	0	0
	28	2	2	2
	29	1.9	1.9	1.9
	30	0	0	0
	31	3.8	3.8	3.8
	32	3.8	3.8	3.8
	33	3.8	3.8	3.8
	34	3.8	3.8	3.8
	35	0	0	0
	36	3.8	3.8	3.8
	37	3.8	3.8	3.8
	38	6.4	6.4	6.4
	39	8.3	8.3	8.3
	40	6.4	6.4	6.4
	41	0	0	0
	42	3.8	3.8	3.8
	43	3.8	3.8	3.8
	44	3.8	3.8	3.8
	45	3.8	3.8	3.8
	46	3.8	3.8	3.8
	47	3.8	3.8	3.8
	48	0	0	0
	49	3.8	3.8	3.8
	50	3.8	3.8	3.8
	51	0	0	0
	52	3.8	3.8	3.8
	53	3.8	3.8	3.8
	54	2.6	2.6	2.6
	55	3.8	3.8	3.8
	56	0	0	0
	57	5	5	5
	58	0	0	0
	59	1.5	1.5	1.5
	60	1.5	1.5	1.5
	61	0	0	0
	62	2.6	2.6	2.6
	63	2.6	2.6	2.6
	64	0	0	0
IN002	1	6.3	6.3	6.3
	2	6.3	6.3	6.3
	3	6.1	6.1	6.1
	4	0	0	0
	5	6.1	6.1	6.1
	6	6.3	6.3	6.3
	7	6.3	6.3	6.3
	8	12.6	12.6	12.6
IN003	1	4.4	4.4	4.4
	2	4.4	4.4	4.4
	3	4.2	4.2	4.2
	4	0	0	0
	5	4.2	4.2	4.2
	6	4.4	4.4	4.4
	7	4.4	4.4	4.4
	8	8.7	8.7	8.7
IN004	1	4.4	4.4	4.4
	2	4.4	4.4	4.4
	3	4.3	4.3	4.3
	4	0	0	0
	5	4.1	4.1	4.1
	6	4.4	4.4	4.4
	7	4.4	4.4	4.4
	8	8.7	8.7	8.7
IN005	1	6.7	6.7	6.7
	2	6.7	6.7	6.7
	3	6.7	6.7	6.7
	4	6.9	6.9	6.9
	5	6.9	6.9	6.9
	6	7.2	7.2	7.2
	7	0	0	0
	8	12.5	12.5	12.5
	9	7.2	7.2	7.2
	10	6.9	6.9	6.9
	11	6.9	6.9	6.9
	12	6.7	6.7	6.7
	13	6.9	6.9	6.9
	14	6.7	6.7	6.7

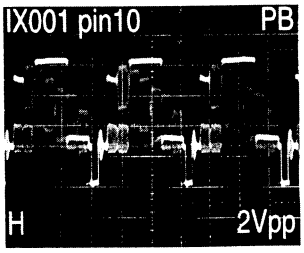
MEASUREMENTS AUDIO HIFI / SCART CONNECTION - MESURES AUDIO HIFI / PRISES SCART - MESSUNGEN LEITERPLATTE AUDIO HIFI / SCART - MISURI AUDIO HIFI / SCART - MEDIDAS AUDIO HIFI /SCART

TMB		MODE		
LOC	PIN	EE	PLAY	REC.
IN006	1	8.5	8.5	8.5
	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	5.3	5.3	5.3
IX101	1	0	0	0
	2	1.2	1.2	1.2
	3	5.8	5.8	5.8
	4	1.6	1.6	1.6
	5	5.8	5.8	5.8
	6	1.8	1.8	1.8
	7	3.7	3.7	3.7
	8	1.4	1.4	1.4
	9	0	0	0
	10	2.4	2.4	2.4
	11	0	0	0
	12	1.4	1.4	1.4
	13	0	0	0
	14	0	0	0
	15	1.3	1.3	1.3
	16	1.8	1.8	1.8
	17	0	0	0
	18	5.8	5.8	5.8
	19	5.8	5.8	5.8
	20	5.8	5.8	5.8
TN001	E	0	0	0
	B	3.7	3.7	3.7
	C	0	0	0
TN002	E	0	0	0
	B	0	0	0
	C	5	5	5
TN003	E	0	0	0
	B	0.6	0.6	0.6
	C	0	0	0
TN004	E	4.1	4.1	4.1
	B	4.7	4.7	4.7
	C	8.4	8.4	8.4
TN300	E	0.6	0.6	1.2
	B	0	0	0.6
	C	0	0	0
TN302	E	4.9	4.9	4.9
	B	4.3	4.3	4.3
	C	0	0	0





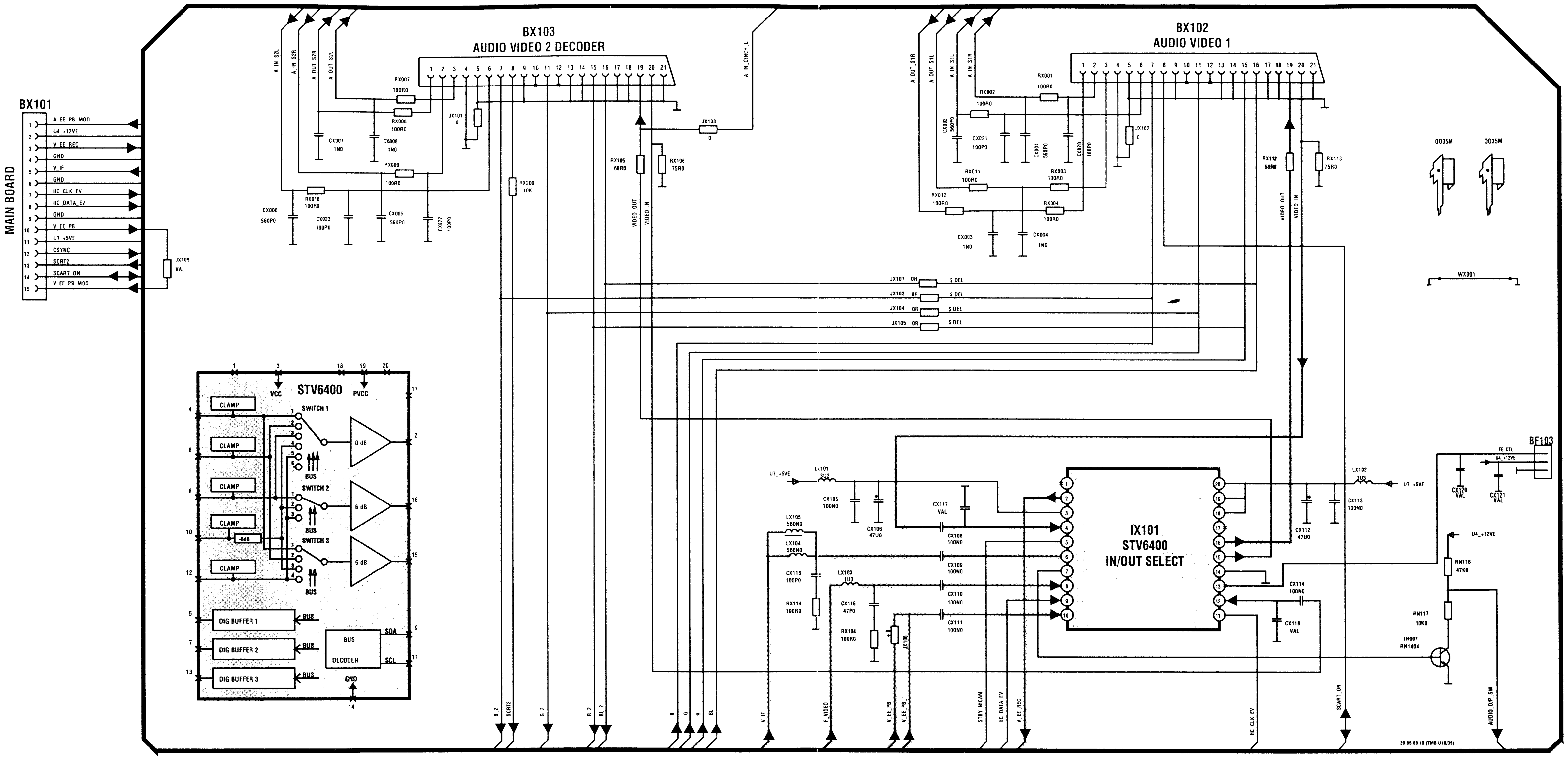




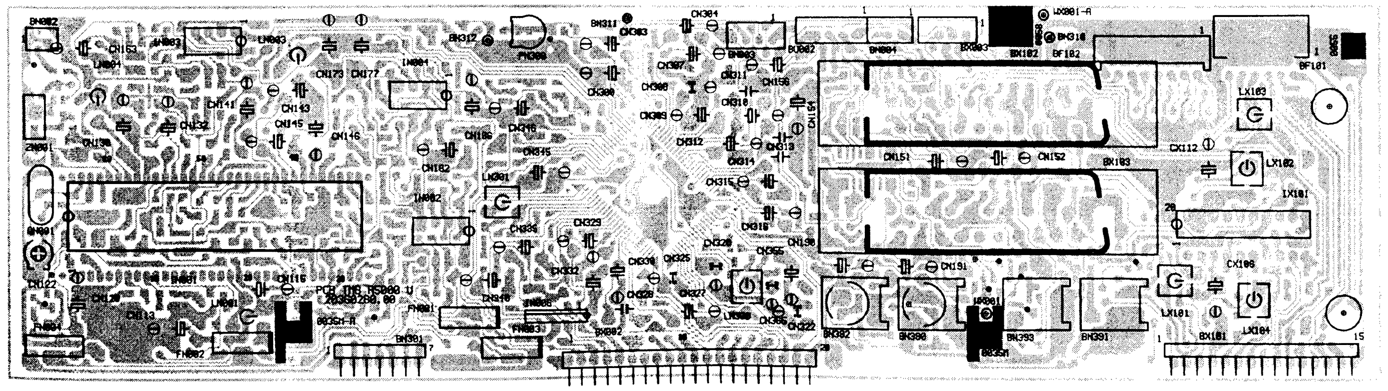
AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO HIFI / SCART

SCHEMATIC DIAGRAM (SCART CONNECTION) - SCHEMA DE PRINCIPE (SCART) - SCHALTBILD (SCART) - SCHEMA (SCART) - ESQUEMA (SCART)

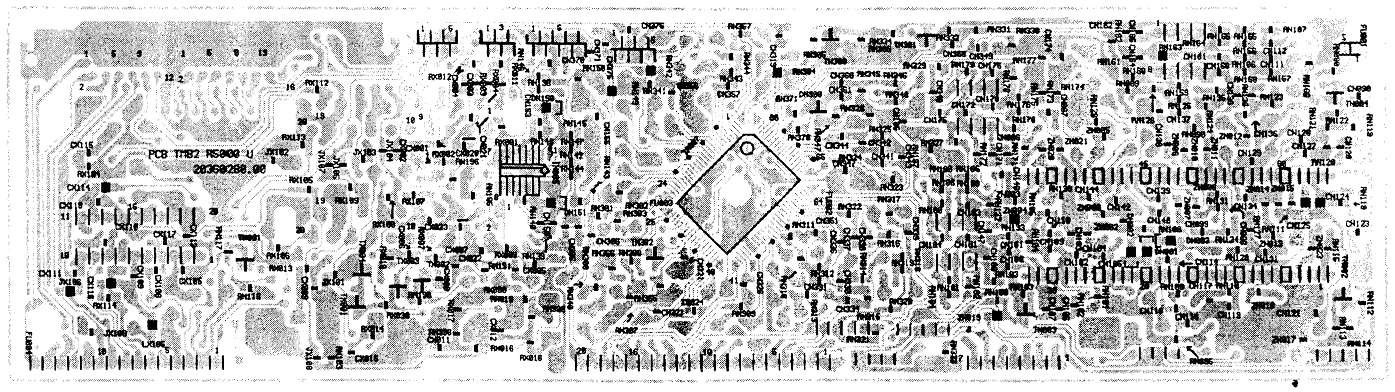
VPH 6600 N - VPH 6601 - M 9560 HIFI/SA - T 8006 HIFI - V 3450 SV - VR 6081 - VR 6087/F - VR 7081 - VR 8083H - VR 8087


BX103
AUDIO VIDEO 2 DECODER
BX102
AUDIO VIDEO 1
BX101
MAIN BOARD
A_EE_PB_MOD
U4_+12VE
V_EE_REC
GND
V_IF
IIC_CLK_EV
IIC_DATA_EV
V_EE_PB
U7_+5VE
CSYNC
SCRT2
SCART_ON
V_EE_PB_MOD
STV6400
VCC
PVCC
CLAMP
SWITCH 1
SWITCH 2
SWITCH 3
BUS
0 dB
6 dB
DIG BUFFER 1
DIG BUFFER 2
DIG BUFFER 3
BUS DECODER
SDA
SCL
GND
IX101
STV6400
IN/OUT SELECT
BF103
WX001
0035M
VIDEO OUT
VIDEO IN
AUDIO O/P SW
SCART ON
IIC_CLK_EV
STBY NICAM
IIC_DATA_EV
V_EE_REC
F_VIDEO
V_IF

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes



Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



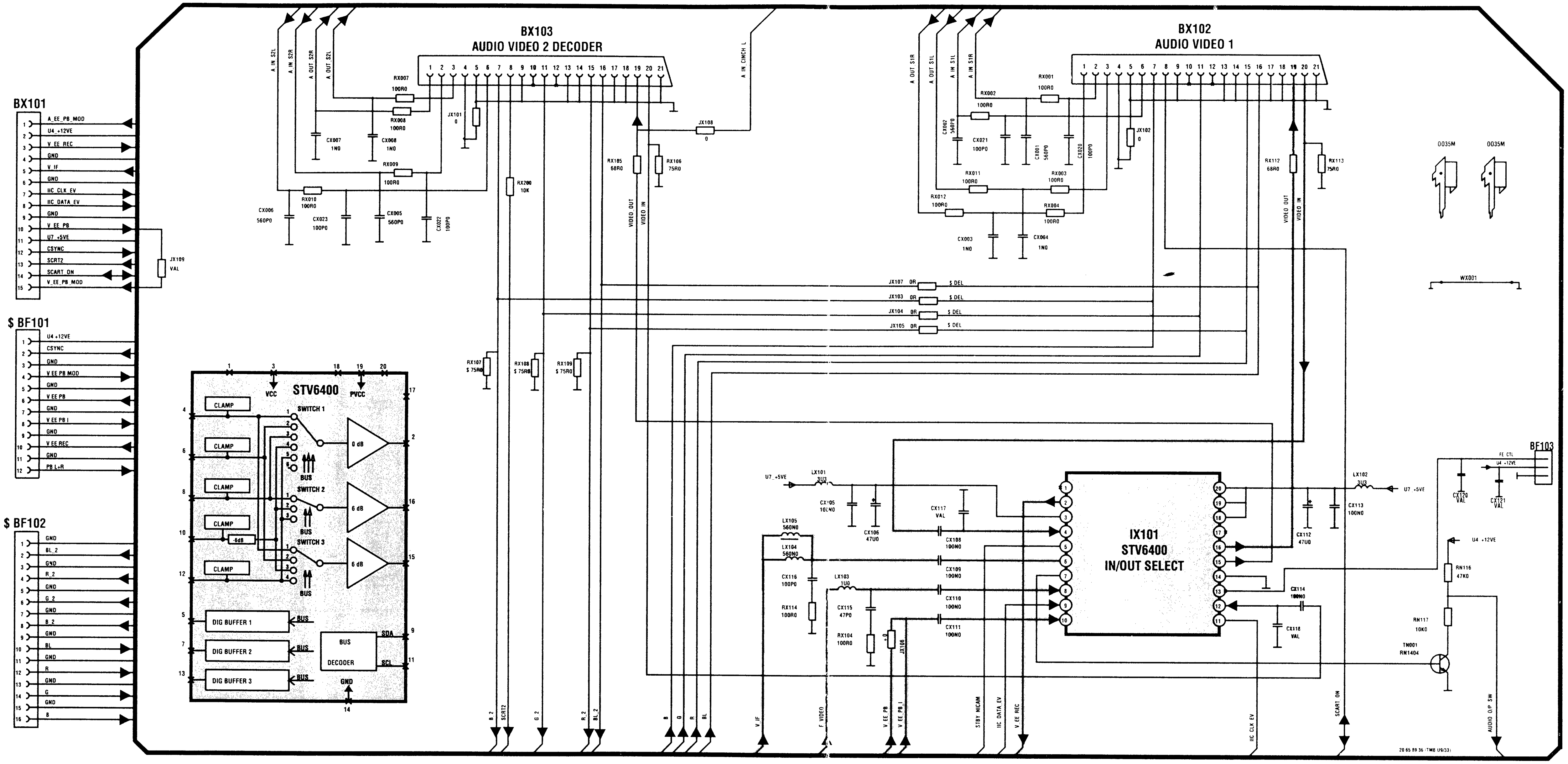
R/T 5000 HI-FI
First issue 08 / 95

Updated 09 / 97

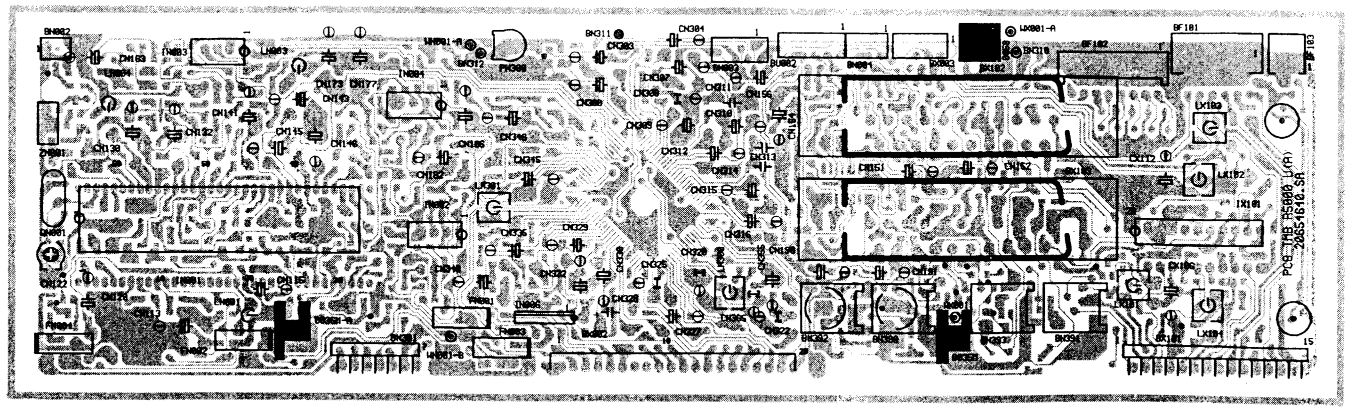
AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO HIFI / SCART

SCHEMATIC DIAGRAM (SCART CONNECTION) - SCHEMA DE PRINCIPE (SCART) - SCHALTBILD (SCART) - SCHEMA (SCART) - ESQUEMA (SCART)

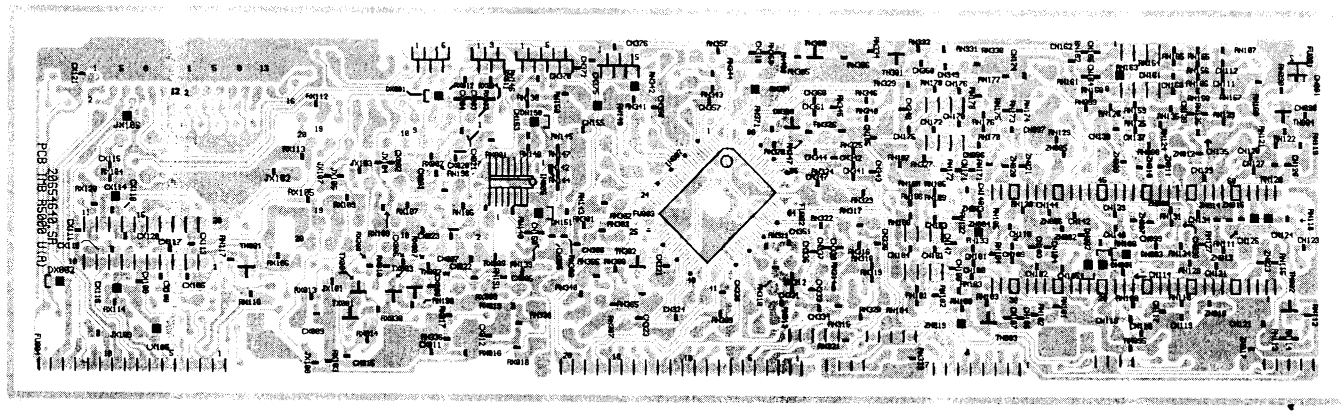
VPH 6680 - VP 6697SENSAR - VPH 6750 - VPH 6751 - VPH 6780 - VPH 6790 - M 9571 HIFI - M 9680 HIFI


BX103
AUDIO VIDEO 2 DECODER
BX102
AUDIO VIDEO 1
BX101
A_EE_PB_MOD
U4_+12VE
V_EE_REC
GND
V_IF
HC_CLK_EV
HC_DATA_EV
V_EE_PB
U7_+5VE
CSYNC
SCRT2
SCART_ON
V_EE_PB_MOD
$ BF101
$ BF102
BF103
STV6400
VCC
PVCC
CLAMP
SWITCH 1
SWITCH 2
SWITCH 3
BUS
0 dB
6 dB
DIG BUFFER 1
DIG BUFFER 2
DIG BUFFER 3
BUS DECODER
SDA
SCL
GND
IX101
STV6400
IN/OUT SELECT
WX001
0035M
20 65 89 36 (TMB U5/33)

Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes

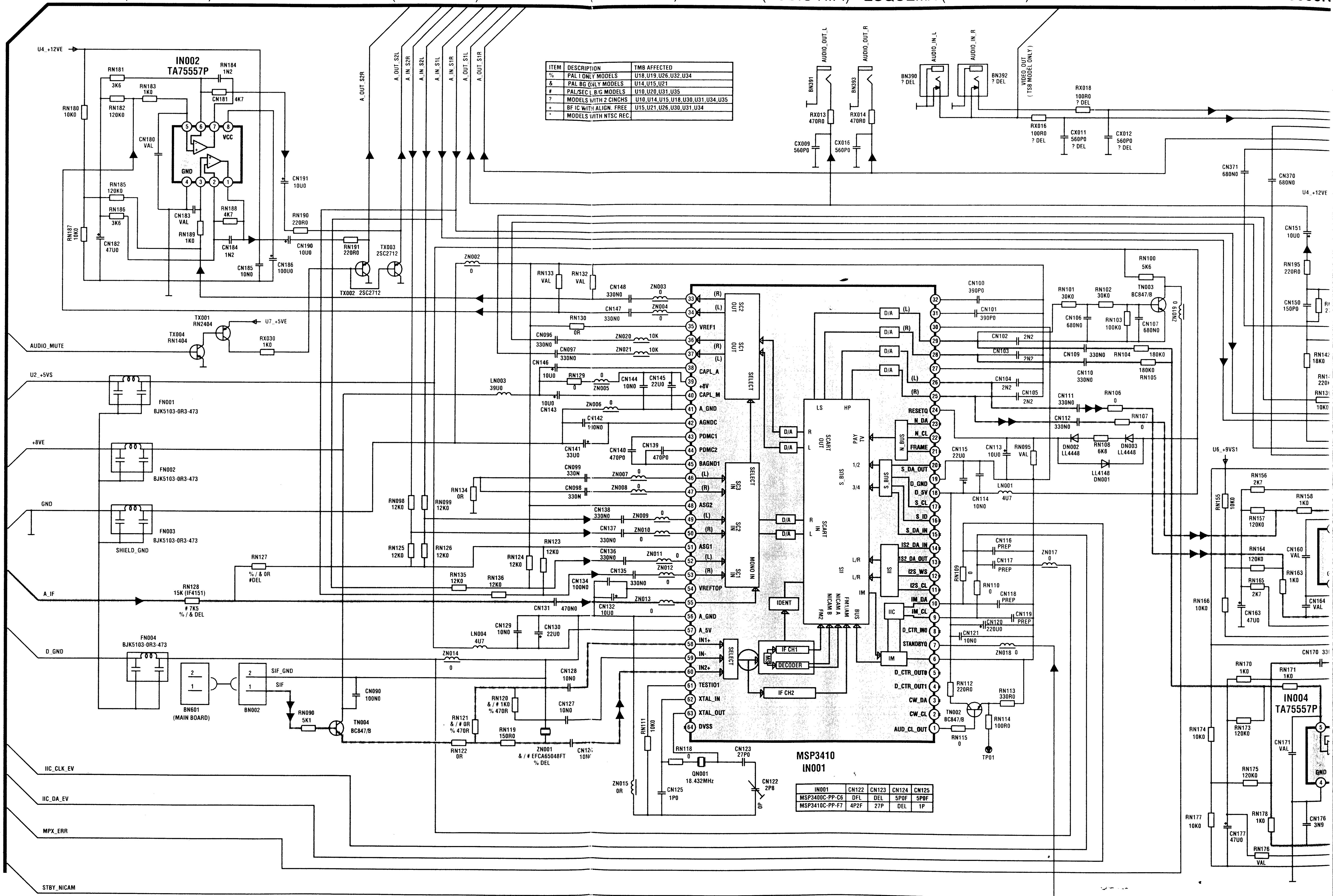


Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre



AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA

SCHEMATIC DIAGRAM (AUDIO HIFI) - SCHEMA DE PRINCIPE (AUDIO HIFI) - SCHALTBILD (AUDIO HIFI) - SCHEMA (AUDIO HIFI) - ESQUEMA (AUDIO HIFI) **M 9560 HIFI/SA - T 8006 HIFI - VPH 6600N**

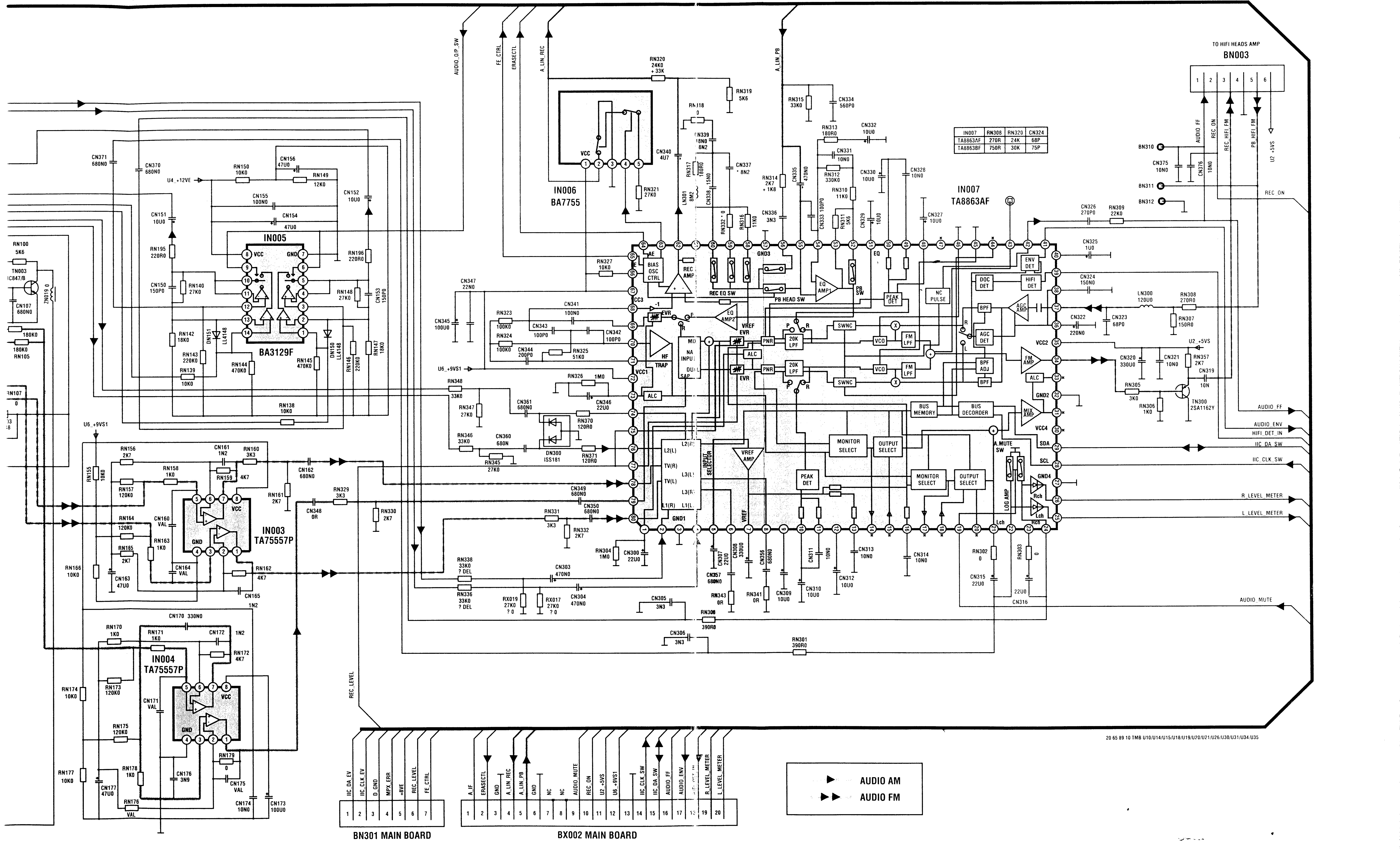


U4_+12VE
IN002
TA75557P
RN181 3K6
RN183 1K0
RN184 1N2
CN181 4K7
RN180 10K0
RN182 120K0
CN180 VAL
VCC
GND
CN191 10U0
RN185 120K0
RN186 3K6
RN187 10K0
CN182 47U0
CN183 VAL
RN188 4K7
RN189 1K0
CN184 1N2
CN185 10N0
CN186 100U0
RN190 220R0
CN190 10U0
RN191 220R0
TX003 2SC2712
TX002 2SC2712
A_OUT_S2R
A_OUT_S2L
A_IN_S2R
A_IN_S2L
A_IN_S1L
A_IN_S1R
A_OUT_S1L
A_OUT_S1R
TX001 RN2404
U7_+5VE
TX004 RN1404
RX030 1K0
AUDIO_MUTE
U2_+5VS
FN001 BJK5103-0R3-473
+8VE
FN002 BJK5103-0R3-473
GND
FN003 BJK5103-0R3-473
SHIELD_GND
A_IF
RN127 % / & 0R #DEL
RN128 15K (IF4151) # 7K5 % / & DEL
D_GND
FN004 BJK5103-0R3-473
BN601 (MAIN BOARD)
BN002
SIF_GND
SIF
RN090 5K1
TN004 BC847/B
CN090 100N0
IIC_CLK_EV
IIC_DA_EV
MPX_ERR
STBY_NICAM
AUDIO_OUT_L
AUDIO_OUT_R
AUDIO_IN_L
AUDIO_IN_R
VIDEO_OUT (TSB MODEL ONLY)
BN391
BN393
BN390 ? DEL
BN392 ? DEL
RX013 470R0
RX014 470R0
CX009 560P0
CX016 560P0
RX018 100R0 ? DEL
RX016 100R0 ? DEL
CX011 560P0 ? DEL
CX012 560P0 ? DEL
CN371 680N0
CN370 680N0
U4_+12VE
CN151 10U0
RN195 220R0
CN150 150P0
ZN002 0
RN133 VAL
RN132 VAL
CN148 330N0
ZN003 0
CN147 330N0
ZN004 0
RN130 0R
CN096 330N0
ZN020 10K
CN097 330N0
ZN021 10K
CN146 10U0
RN129 0
ZN005
CN144 10N0
CN145 22U0
LN003 39U0
CN143 10U0
ZN006 0
CN142 100N0
CN141 33U0
CN140 470P0
CN139 470P0
CN099 330N
ZN007 0
CN098 330N
ZN008 0
RN134 0R
RN098 12K0
RN099 12K0
CN138 330N0
ZN009 0
CN137 330N0
ZN010 0
RN123 12K0
RN124 12K0
RN125 12K0
RN126 12K0
RN135 12K0
RN136 12K0
CN136 330N0
ZN011 0
ZN012 0
CN135 330N0
CN134 100N0
CN131 470N0
CN132 10U0
ZN013 0
CN129 10N0
CN130 22U0
LN004 4U7
ZN014 0
CN128 10N0
RN120 & / # 1K0 % 470R
CN127 10N0
RN121 & / # 0R % 470R
RN119 150R0
RN122 0R
ZN001 & / # EFCA65048FT % DEL
CN126 10N0
RN111 10K0
RN118 0
QN001 18.432MHz
CN123 27P0
CN122 2P8
CN125 1P0
ZN015 0R
MSP3410
IN001
33 (R) 34 (L) SC2 OUT
35 VREF1
36 (R) 37 (L) SC1 OUT
38 CAPL_A
39 +8V
40 CAPL_M
41 A_GND
42 AGNDC
43 PDMC1
44 PDMC2
45 BAGND1
46 (L) 47 (R) SC3 IN
48 ASG2
49 (L) 50 (R) SC2 IN
51 ASG1
52 (L) 53 (R) SC1 IN
54 VREFTOP
55
56 A_GND
57 A_5V
58 IN1+
59 IN-
60 IN2+
61 TESTIO1
62 XTAL_IN
63 XTAL_OUT
64 DVSS
SELECT
MONO IN
D/A
LS
HP
SCART OUT
PAY TV
S_BUS
1/2
3/4
SCART IN
L/R
SII
IM
BUS
FM1/AM
NICAM A
NICAM B
FM2
IDENT
IF CH1
DECODER
IF CH2
IIC
32 31 30 29 28 27
26 (L)
25 (R)
24 RESETQ
23 N_DA
22 N_CL
21 FRAME
20 S_DA_OUT
19
18 D_GND
17 D_5V
16 S_CL
15 S_ID
14 S_DA_IN
13 IS2_DA_IN
12 IS2_DA_OUT
11 I2S_WS
10 I2S_CL
9 IM_DA
8 IM_CL
7 D_CTR_INO
6 STANDBYQ
5 D_CTR_OUT0
4 D_CTR_OUT1
3 CW_DA
2 CW_CL
1 AUD_CL_OUT
CN100 390P0
CN101 390P0
CN102 2N2
CN103 2N2
CN104 2N2
CN105 2N2
CN109 330N0
RN104 180K0
CN110 330N0
RN105 180K0
CN111 330N0
RN106 0
CN112 330N0
RN107 0
DN002 LL4448
RN108 6K8
DN003 LL4448
LL4148 DN001
CN115 22U0
CN113 10U0
RN095 VAL
CN114 10N0
LN001 4U7
RN101 30K0
RN102 30K0
RN100 5K6
TN003 BC847/B
CN106 680N0
RN103 100K0
CN107 680N0
ZN019 0
CN116 PREP
CN117 PREP
ZN017
RN109 0
RN110 0
CN118 PREP
CN119 PREP
CN120 220U0
CN121 10N0
ZN018 0
RN112 220R0
TN002 BC847/B
RN113 330R0
RN114 100R0
RN115 0
TP01
U6_+9VS1
RN155 10K0
RN156 2K7
RN157 120K0
RN158 1K0
RN164 120K0
CN160 VAL
RN165 2K7
RN163 1K0
RN166 10K0
CN163 47U0
CN164 VAL
CN170
RN170 1K0
RN171 1K0
IN004
TA75557P
RN174 10K0
RN173 120K0
CN171 VAL
RN175 120K0
RN177 10K0
CN177 47U0
RN178 1K0
CN176 3N9
RN176 VAL

ITEM	DESCRIPTION	TMB AFFECTED
%	PAL I ONLY MODELS	U18,U19,U26,U32,U34
&	PAL BG ONLY MODELS	U14,U15,U21
#	PAL/SEC L.B/G MODELS	U10,U20,U31,U35
?	MODELS WITH 2 CINCHS	U10,U14,U15,U18,U30,U31,U34,U35
+	BF IC WITH ALIGN. FREE	U15,U21,U26,U30,U31,U34
*	MODELS WITH NTSC REC.	

IN001	CN122	CN123	CN124	CN125
MSP3400C-PP-C6	DFL	DEL	5P0F	5P0F
MSP3410C-PP-F7	4P2F	27P	DEL	1P

…A - T 8006 HIFI - VPH 6600N - VPH 6601 - V 3450 SV - VR 6081 - VR 6087/F - VR 7081 - VR 8083SH - VR 8087

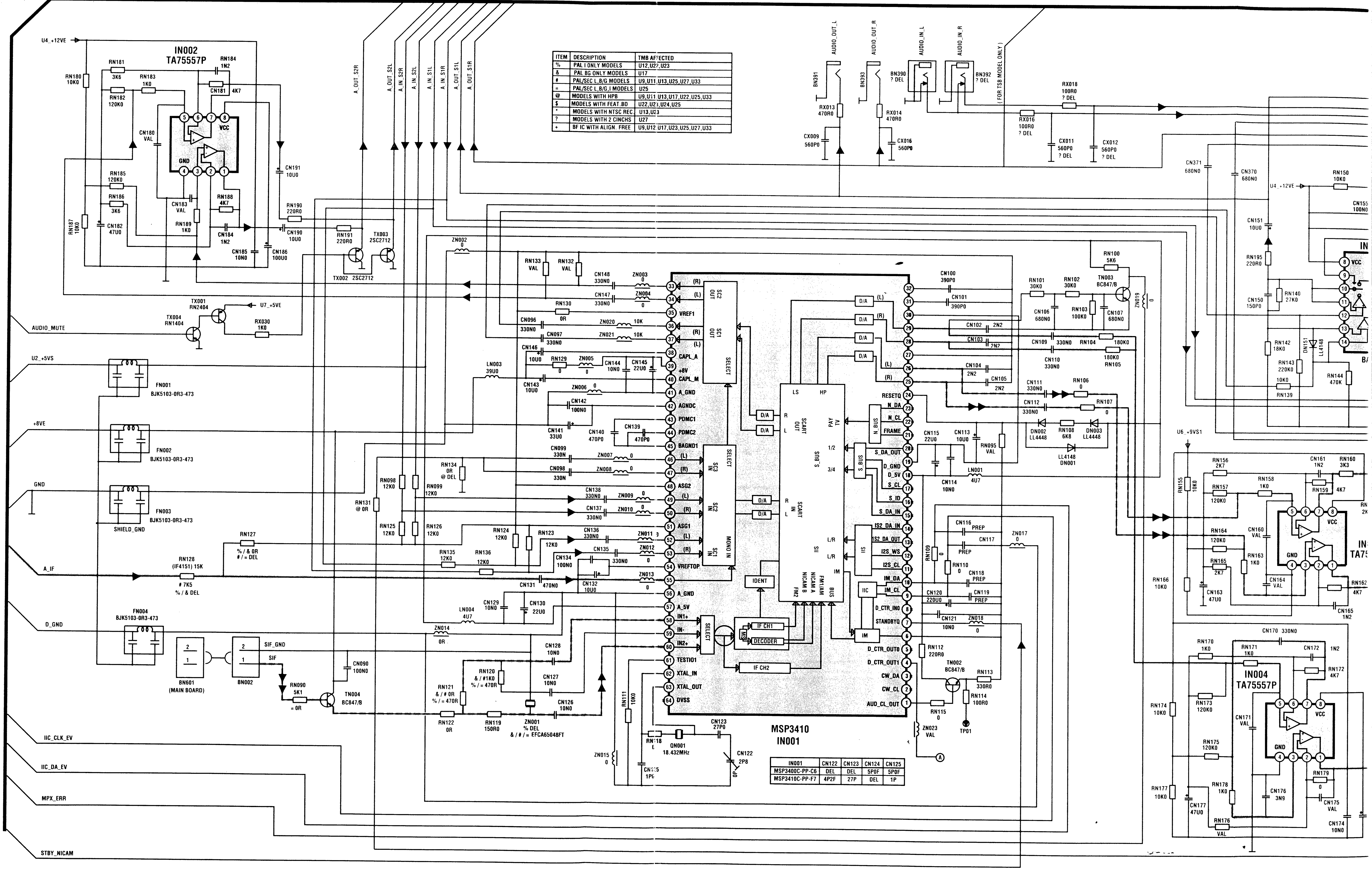

IN005
BA3129F
IN006
BA7755
IN003
TA75557P
IN004
TA75557P
IN007
TA8863AF
TO HIFI HEADS AMP
BN003
AUDIO FF
REC ON
REC_HIFI_FM
PB_HIFI_FM
U2 +5VS
AUDIO_O/P_SW
FE_CTRL
ERASECTL
A_LIN_REC
A_LIN_PB
U4 +12VE
U6 +9VS1
U2 +5VS
BIAS OSC CTRL
REC AMP
REC EQ SW
PB HEAD SW
EQ AMP1
EQ AMP2
PB SW
PEAK DET
NC PULSE
DOC DET
HIFI DET
ENV DET
AGC AMP
AGC DET
BPF
BPF ADJ
ALC
FM AMP
MIX AMP
BUS MEMORY
BUS DECORDER
MONITOR SELECT
OUTPUT SELECT
INPUT SELECTOR
VREF AMP
HF TRAP
NA INPUT
PNR
20K LPF
SWNC
VCO
FM LPF
LOG AMP
A.MUTE SW
AUDIO_FF
AUDIO_ENV
HIFI_DET_IN
IIC_DA_SW
IIC_CLK_SW
R_LEVEL_METER
L_LEVEL_METER
AUDIO_MUTE
REC_ON
REC_LEVEL
IIC_DA_EV
IIC_CLK_EV
D_GND
MPX_ERR
+8VE
REC_LEVEL
FE_CTRL
BN301 MAIN BOARD
A_IF
ERASECTL
GND
A_LIN_REC
A_LIN_PB
GND
NC
NC
AUDIO_MUTE
REC_ON
U2 +5VS
U6 +9VS1
IIC_CLK_SW
IIC_DA_SW
AUDIO_FF
AUDIO_ENV
R_LEVEL_METER
L_LEVEL_METER
BX002 MAIN BOARD
AUDIO AM
AUDIO FM

IN007	RN308	RN320	CN324
TA8863AF	270R	24K	68P
TA8863BF	750R	30K	75P

20 65 89 10 TMB U10/U14/U15/U18/U19/U20/U21/U26/U30/U31/U34/U35

AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO

SCHEMATIC DIAGRAM (AUDIO HIFI) - SCHEMA DE PRINCIPE (AUDIO HIFI) - SCHALTBILD (AUDIO HIFI) - SCHEMA (AUDIO HIFI) - ESQUEMA (AUDIO HIFI) VPH 6680 - VPH 6697SENSAR - VPH 6750 - VPH 6


U4_+12VE
IN002
TA75557P
AUDIO_MUTE
U2_+5VS
+8VE
GND
SHIELD_GND
A_IF
D_GND
IIC_CLK_EV
IIC_DA_EV
MPX_ERR
STBY_NICAM
FN001 BJK5103-0R3-473
FN002 BJK5103-0R3-473
FN003 BJK5103-0R3-473
FN004 BJK5103-0R3-473
BN601 (MAIN BOARD)
BN002
SIF_GND
SIF
TN004 BC847/B
TX001 RN2404
TX004 RN1404
TX002 2SC2712
TX003 2SC2712
U7_+5VE
A_OUT_S2R
A_OUT_S2L
A_IN_S2R
A_IN_S2L
A_IN_S1L
A_IN_S1R
A_OUT_S1L
A_OUT_S1R
AUDIO_OUT_L
AUDIO_OUT_R
AUDIO_IN_L
AUDIO_IN_R
(FOR TSB MODEL ONLY)
BN391
BN393
BN390 ? DEL
BN392 ? DEL
VREF1
CAPL_A
+8V
CAPL_M
A_GND
AGNDC
PDMC1
PDMC2
BAGND1
ASG2
ASG1
VREFTOP
A_5V
IN1+
IN-
IN2+
TESTIO1
XTAL_IN
XTAL_OUT
DVSS
SELECT
IDENT
IF CH1
DECODER
IF CH2
LS
HP
SCART OUT
SCART IN
MONO IN
D/A
FM1/AM
NICAM A
NICAM B
FM2
BUS
RESETQ
N_DA
N_CL
FRAME
S_DA_OUT
D_GND
D_5V
S_CL
S_ID
S_DA_IN
I2S_DA_IN
I2S_DA_OUT
I2S_WS
I2S_CL
IM_DA
IM_CL
D_CTR_IN0
STANDBYQ
D_CTR_OUT0
D_CTR_OUT1
CW_DA
CW_CL
AUD_CL_OUT
QN001 18.432MHz
TN002 BC847/B
TN003 BC847/B
TP01
U6_+9VS1
IN004
TA75557P
VCC

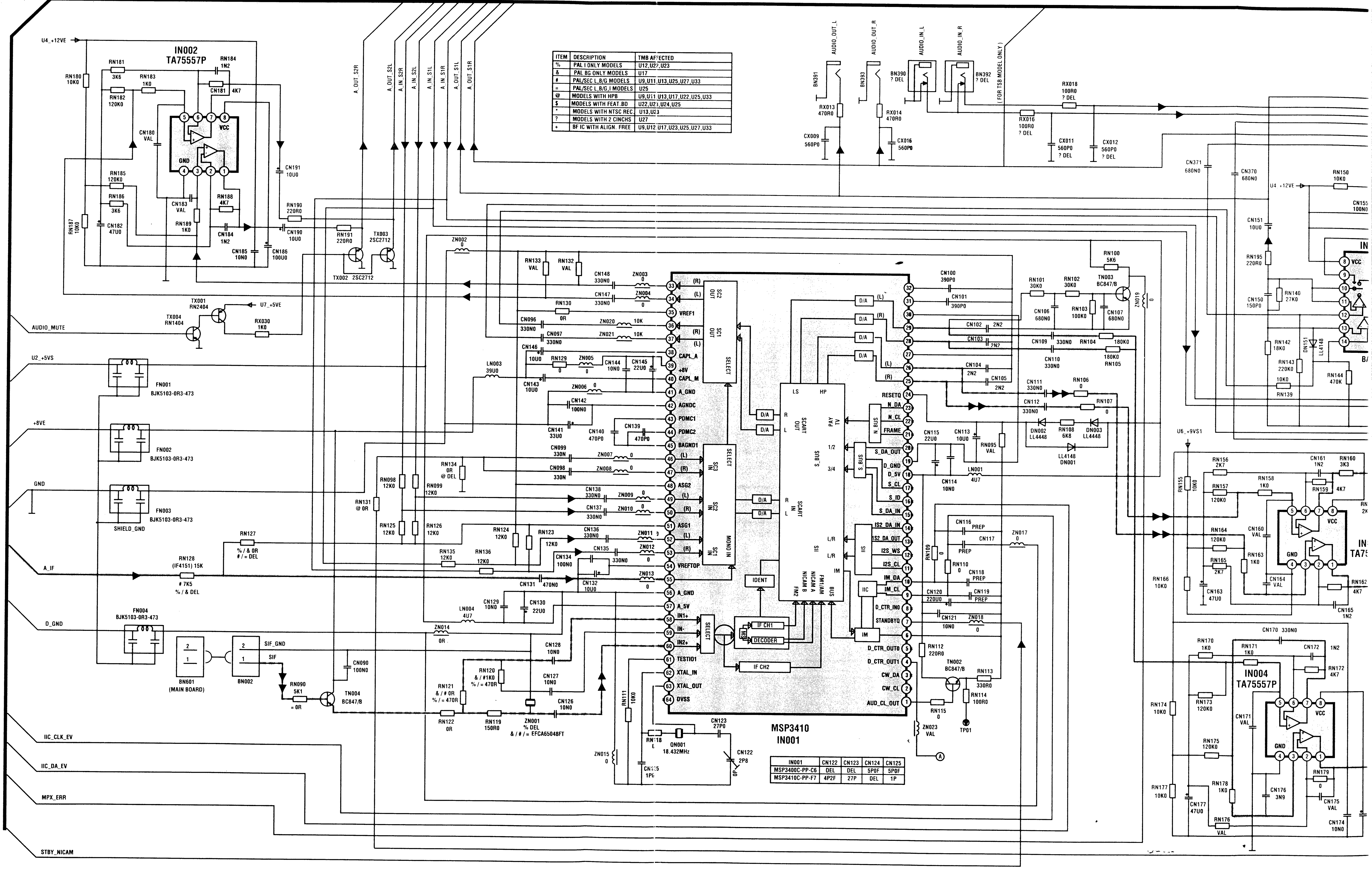
ITEM	DESCRIPTION	TMB AFFECTED
%	PAL I ONLY MODELS	U12,U22,U23
&	PAL BG ONLY MODELS	U17
#	PAL/SEC L,B/G MODELS	U9,U11,U13,U25,U27,U33
=	PAL/SEC L,B/G,I MODELS	U25
@	MODELS WITH HPB	U9,U11,U13,U17,U22,U25,U33
$	MODELS WITH FEAT.BD	U22,U23,U24,U25
*	MODELS WITH NTSC REC.	U13,U23
?	MODELS WITH 2 CINCHS	U27
+	BF IC WITH ALIGN. FREE	U9,U12,U17,U23,U25,U27,U33

MSP3410
IN001

IN001	CN122	CN123	CN124	CN125
MSP3400C-PP-C6	DEL	DEL	5P0F	5P0F
MSP3410C-PP-F7	4P2F	27P	DEL	1P

AUDIO HIFI / SCART CONNECTION BOARD - PLATINE AUDIO HIFI / PRISES SCART - LEITERPLATTE AUDIO HIFI / SCART - PIASTRA AUDIO HIFI / SCART - PLATINA AUDIO

SCHEMATIC DIAGRAM (AUDIO HIFI) - SCHEMA DE PRINCIPE (AUDIO HIFI) - SCHALTBILD (AUDIO HIFI) - SCHEMA (AUDIO HIFI) - ESQUEMA (AUDIO HIFI) **VPH 6680 - VPH 6697SENSAR - VPH 6750 - VPH 6**

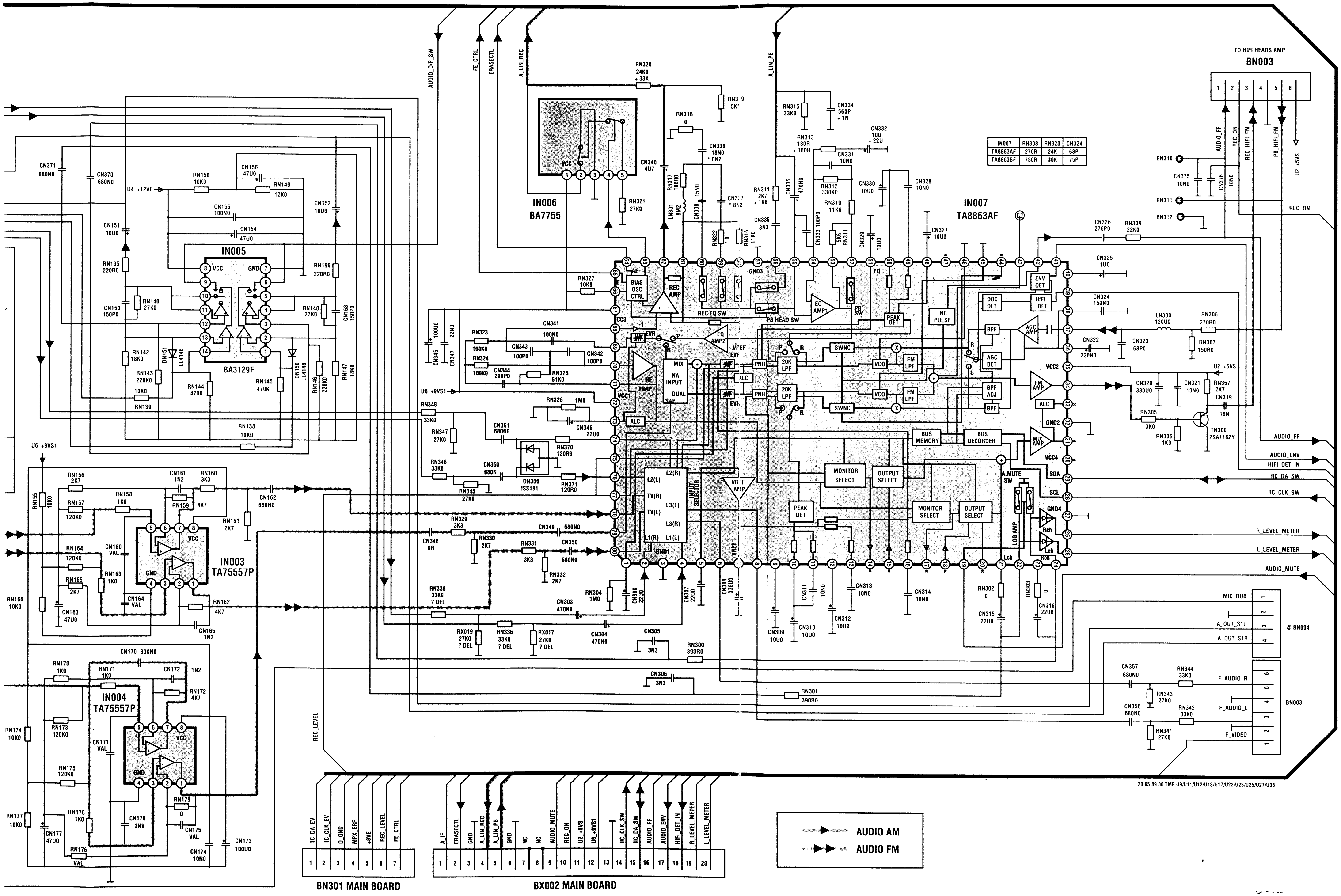

U4_+12VE
IN002
TA75557P
RN180 10K0
RN181 3K6
RN182 120K0
RN183 1K0
RN184 1N2
CN181 4K7
CN180 VAL
VCC
GND
RN185 120K0
RN186 3K6
RN187 10K0
CN182 47U0
CN183 VAL
RN188 4K7
RN189 1K0
CN184 1N2
CN185 10N0
CN186 100U0
CN191 10U0
RN190 220R0
CN190 10U0
RN191 220R0
TX003 2SC2712
TX002 2SC2712
A_OUT_S2R
A_OUT_S2L
A_IN_S2R
A_IN_S2L
A_IN_S1L
A_IN_S1R
A_OUT_S1L
A_OUT_S1R
AUDIO_OUT_L
AUDIO_OUT_R
AUDIO_IN_L
AUDIO_IN_R
BN391
BN393
BN390 ? DEL
BN392 ? DEL
(FOR TSB MODEL ONLY)
RX013 470R0
RX014 470R0
CX009 560P0
CX016 560P0
RX016 100R0 ? DEL
RX018 100R0 ? DEL
CX011 560P0 ? DEL
CX012 560P0 ? DEL
CN371 680N0
CN370 680N0
RN150 10K0
U4_+12VE
CN155 100N0
CN151 10U0
RN195 220R0
CN150 150P0
RN140 27K0
RN142 18K0
DN151 LL4148
RN143 220K0
RN139 10K0
RN144 470K
AUDIO_MUTE
TX001 RN2404
TX004 RN1404
U7_+5VE
RX030 1K0
U2_+5VS
FN001 BJK5103-0R3-473
+8VE
FN002 BJK5103-0R3-473
GND
FN003 BJK5103-0R3-473
SHIELD_GND
A_IF
RN127 % / & 0R # / = DEL
RN128 (IF4151) 15K # 7K5 % / & DEL
D_GND
FN004 BJK5103-0R3-473
BN601 (MAIN BOARD)
BN002
SIF_GND
SIF
RN090 5K1 = 0R
CN090 100N0
TN004 BC847/B
IIC_CLK_EV
IIC_DA_EV
MPX_ERR
STBY_NICAM
ZN002 0
RN133 VAL
RN132 VAL
CN148 330N0
ZN003 0
CN147 330N0
ZN004 0
RN130 0R
CN096 330N0
ZN020 10K
CN097 330N0
ZN021 10K
CN146 10U0
RN129 0
ZN005 0
CN144 10N0
CN145 22U0
LN003 39U0
CN143 10U0
ZN006 0
CN142 100N0
CN141 33U0
CN140 470P0
CN139 470P0
CN099 330N
ZN007 0
CN098 330N
ZN008 0
RN134 0R @ DEL
RN098 12K0
RN099 12K0
CN138 330N0
ZN009 0
CN137 330N0
ZN010 0
RN131 @ 0R
RN125 12K0
RN126 12K0
RN124 12K0
RN123 12K0
CN136 330N0
ZN011 0
RN135 12K0
RN136 12K0
CN135
ZN012 0
CN134 100N0
CN133 330N0
ZN013 0
CN131 470N0
CN132 10U0
CN129 10N0
CN130 22U0
LN004 4U7
ZN014 0R
CN128 10N0
RN120 & / #1K0 % / = 470R
RN121 & / # 0R % / = 470R
RN122 0R
RN119 150R0
ZN001 % DEL & / # / = EFCA65048FT
CN127 10N0
CN126 10N0
RN111 10K0
RN118 0
QN001 18.432MHz
CN123 27P0
CN122 2P8
CN125 1P0
ZN015 0
33 (R)
34 (L)
35 VREF1
36 (R)
37 (L)
38 CAPL_A
39 +8V
40 CAPL_M
41 A_GND
42 AGNDC
43 PDMC1
44 PDMC2
45 BAGND1
46 (L)
47 (R)
48 ASG2
49 (L)
50 (R)
51 ASG1
52 (L)
53 (R)
54 VREFTOP
55
56 A_GND
57 A_5V
58 IN1+
59 IN-
60 IN2+
61 TESTIO1
62 XTAL_IN
63 XTAL_OUT
64 DVSS
SC2 OUT
SC1 OUT
SELECT
SC3 IN
SC2 IN
SC1 IN
MONO IN
D/A
LS
HP
SCART OUT
PAY TV
SUBS
S_SUBS
1/2
3/4
SCART IN
L/R
SII
IM
IDENT
FM1/AM
NICAM A
NICAM B
FM2
BUS
IIC
IF CH1
DECODER
IF CH2
MSP3410
IN001
32
31
30
29
28
27
26
25
24 RESETQ
23 N_DA
22 N_CL
21 FRAME
20 S_DA_OUT
19 D_GND
18 D_5V
17 S_CL
16 S_ID
15 S_DA_IN
14 I2S_DA_IN
13 I2S_DA_OUT
12 I2S_WS
11 I2S_CL
10 IM_DA
9 IM_CL
8 D_CTR_INO
7 STANDBYQ
6
5 D_CTR_OUT0
4 D_CTR_OUT1
3 CW_DA
2 CW_CL
1 AUD_CL_OUT
CN100 390P0
CN101 390P0
CN102 2N2
CN103 2N2
CN104 2N2
CN105 2N2
RN101 30K0
RN102 30K0
RN100 5K6
TN003 BC847/B
ZN019 0
CN106 680N0
RN103 100K0
CN107 680N0
CN109 330N0
RN104 180K0
CN110 330N0
RN105 180K0
CN111 330N0
RN106 0
CN112 330N0
RN107 0
DN002 LL4448
RN108 6K8
DN003 LL4448
LL4148 DN001
CN115 22U0
CN113 10U0
RN095 VAL
CN114 10N0
LN001 4U7
CN116 PREP
CN117 PREP
ZN017 0
RN109 0
RN110 0
CN118 PREP
CN119 PREP
CN120 220U0
CN121 10N0
ZN018 0
RN112 220R0
TN002 BC847/B
RN113 330R0
RN114 100R0
RN115 0
ZN023 VAL
TP01
A
U6_+9VS1
RN155 10K0
RN156 2K7
RN157 120K0
RN158 1K0
CN161 1N2
RN160 3K3
RN159 4K7
CN160 VAL
RN164 120K0
RN163 1K0
RN165 2K7
CN164 VAL
RN166 10K0
CN163 47U0
RN162 4K7
CN165 1N2
CN170 330N0
RN170 1K0
RN171 1K0
CN172 1N2
RN172 4K7
IN004
TA75557P
RN174 10K0
RN173 120K0
CN171 VAL
RN175 120K0
RN177 10K0
RN178 1K0
CN176 3N9
RN179 0
CN175 VAL
CN177 47U0
RN176 VAL
CN174 10N0

ITEM	DESCRIPTION	TMB AFFECTED
%	PAL I ONLY MODELS	U12,U22,U23
&	PAL BG ONLY MODELS	U17
#	PAL/SEC L,B/G MODELS	U9,U11,U13,U25,U27,U33
=	PAL/SEC L,B/G,I MODELS	U25
@	MODELS WITH HPB	U9,U11,U13,U17,U22,U25,U33
$	MODELS WITH FEAT.BD	U22,U23,U24,U25
*	MODELS WITH NTSC REC.	U13,U23
?	MODELS WITH 2 CINCHS	U27
+	BF IC WITH ALIGN. FREE	U9,U12,U17,U23,U25,U27,U33

IN001	CN122	CN123	CN124	CN125
MSP3400C-PP-C6	DEL	DEL	5P0F	5P0F
MSP3410C-PP-F7	4P2F	27P	DEL	1P

SCART - PLATINA AUDIO HIFI /

697SENSAR - VPH 6750 - VPH 6751 - VPH 6780 - VPH 6790 - M 9571 HIFI - M 9680 HIFI



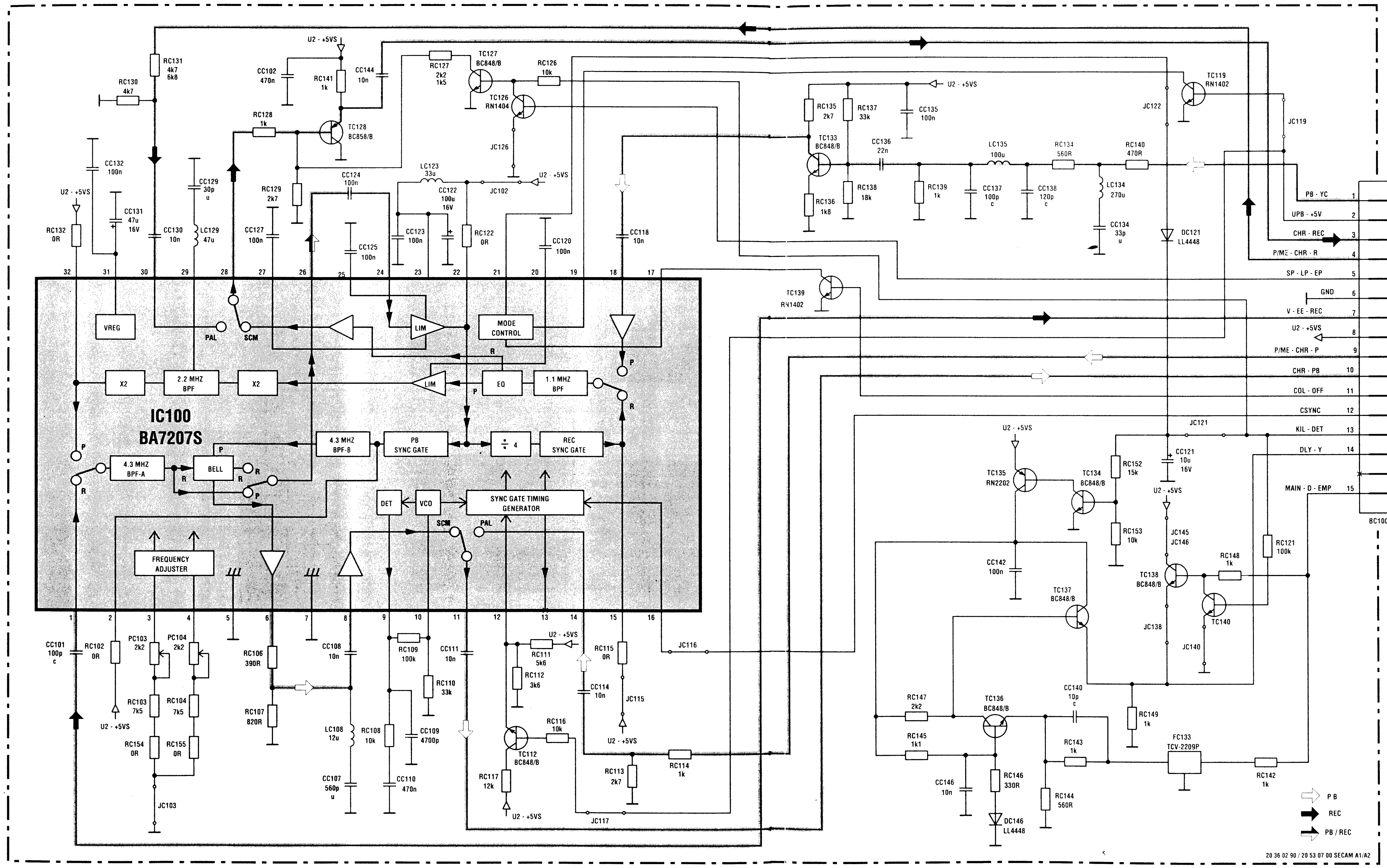
AUDIO_O/P_SW
FE_CTRL
ERASECTL
A_LIN_REC
A_LIN_PB
TO HIFI HEADS AMP
BN003
AUDIO_FF
REC_ON
REC_HIFI_FM
PB_HIFI_FM
U2_+5VS
IN006
BA7755
IN005
BA3129F
IN007
TA8863AF
IN003
TA75557P
IN004
TA75557P
TN300
2SA1162Y
DN300
ISS181
BN310
BN311
BN312
U4_+12VE
U6_+9VS1
U2_+5VS
BIAS OSC CTRL
REC AMP
REC EQ SW
PB HEAD SW
EQ AMP1
EQ AMP2
PB SW
PEAK DET
NC PULSE
DOC DET
ENV DET
HIFI DET
BPF
AGC AMP
AGC DET
BPF ADJ
FM AMP
ALC
MIX AMP
PNR
20K LPF
SWNC
VCO
FM LPF
HF TRAP
MIX
NA INPUT
DUAL SAP
BUS MEMORY
BUS DECORDER
MONITOR SELECT
OUTPUT SELECT
INPUT SELECTOR
VREF AMP
A.MUTE SW
LOG AMP
SDA
SCL
VCC1
VCC2
VCC4
GND1
GND2
GND3
GND4
Rch
Lch
AUDIO_FF
AUDIO_ENV
HIFI_DET_IN
IIC_DA_SW
IIC_CLK_SW
R_LEVEL_METER
L_LEVEL_METER
AUDIO_MUTE
MIC_DUB
A_OUT_S1L
A_OUT_S1R
BN004
F_AUDIO_R
F_AUDIO_L
F_VIDEO
BN003
REC_LEVEL
IIC_DA_EV
IIC_CLK_EV
D_GND
MPX_ERR
+8VE
REC_LEVEL
FE_CTRL
A_IF
ERASECTL
GND
A_LIN_REC
A_LIN_PB
GND
NC
NC
AUDIO_MUTE
REC_ON
U2_+5VS
U6_+9VS1
IIC_CLK_SW
IIC_DA_SW
AUDIO_FF
AUDIO_ENV
HIFI_DET_IN
R_LEVEL_METER
L_LEVEL_METER
BN301 MAIN BOARD
BX002 MAIN BOARD
AUDIO AM
AUDIO FM
20 65 89 30 TMB U9/U11/U12/U13/U17/U22/U23/U25/U27/U33

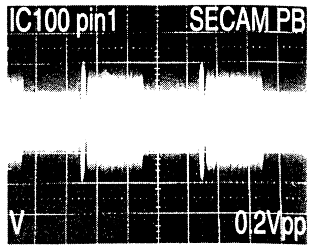
IN007	RN308	RN320	CN324
TA8863AF	270R	24K	68P
TA8863BF	750R	30K	75P

Updated 09 / 97

SECAM SUB BOARD - PLATINE SECAM - SUB MODUL SECAM - PIASTRA SECAM - PLATINA SECAM

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA


IC100
BA7207S
VREG
PAL
SCM
LIM
MODE CONTROL
X2
2.2 MHZ BPF
1.1 MHZ BPF
EQ
4.3 MHZ BPF-B
PB SYNC GATE
÷ 4
REC SYNC GATE
4.3 MHZ BPF-A
BELL
DET
VCO
SYNC GATE TIMING GENERATOR
FREQUENCY ADJUSTER
RC131 4k7 6k8
RC130 4k7
CC132 100n
CC131 47u 16V
RC132 0R
CC130 10n
CC129 30p u
LC129 47u
CC127 100n
RC128 1k
RC129 2k7
CC102 470n
RC141 1k
CC144 10n
TC128 BC858/B
RC127 2k2 1k5
TC127 BC848/B
TC126 RN1404
RC126 10k
JC126
CC124 100n
CC125 100n
LC123 33u
CC122 100u 16V
CC123 100n
RC122 0R
JC102
CC120 100n
CC118 10n
U2 - +5VS
TC139 RN1402
RC135 2k7
RC137 33k
CC135 100n
TC133 BC848/B
RC136 1k8
CC136 22n
RC138 18k
RC139 1k
LC135 100u
CC137 100p c
CC138 120p c
RC134 560R
RC140 470R
LC134 270u
CC134 33p u
DC121 LL4448
JC122
TC119 RN1402
JC119
JC121
TC135 RN2202
TC134 BC848/B
RC152 15k
RC153 10k
CC121 10u 16V
CC142 100n
TC137 BC848/B
TC138 BC848/B
JC145 JC146
RC148 1k
TC140
RC121 100k
JC138
JC140
RC147 2k2
RC145 1k1
TC136 BC848/B
CC140 10p c
RC149 1k
CC146 10n
RC146 330R
DC146 LL4448
RC143 1k
RC144 560R
FC133 TCV-2209P
RC142 1k
CC101 100p c
RC102 0R
PC103 2k2
PC104 2k2
RC103 7k5
RC104 7k5
RC154 0R
RC155 0R
JC103
RC106 390R
RC107 820R
CC108 10n
LC108 12u
CC107 560p u
RC108 10k
CC109 4700p
CC110 470n
RC109 100k
CC111 10n
RC110 33k
RC111 5k6
RC112 3k6
TC112 BC848/B
RC116 10k
RC117 12k
RC115 0R
CC114 10n
JC115
JC116
RC113 2k7
RC114 1k
JC117
PB - YC 1
UPB - +5V 2
CHR - REC 3
P/ME - CHR - R 4
SP - LP - EP 5
GND 6
V - EE - REC 7
U2 - +5VS 8
P/ME - CHR - P 9
CHR - PB 10
COL - OFF 11
CSYNC 12
KIL - DET 13
DLY - Y 14
MAIN - D - EMP 15
BC100
to MAIN BOARD MAIN VIDEO PAL/MES/SEC/NTSC
PB
REC
PB / REC
20 36 02 90 / 20 53 07 00 SECAM A1/A2



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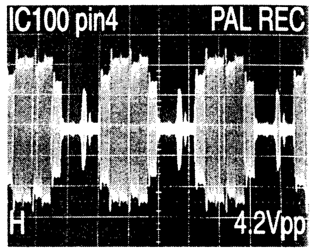

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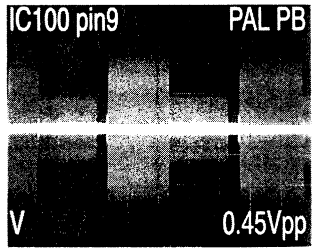

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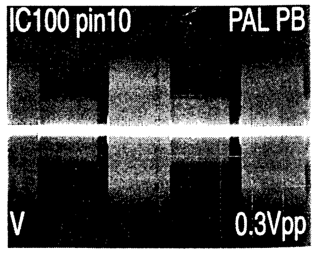
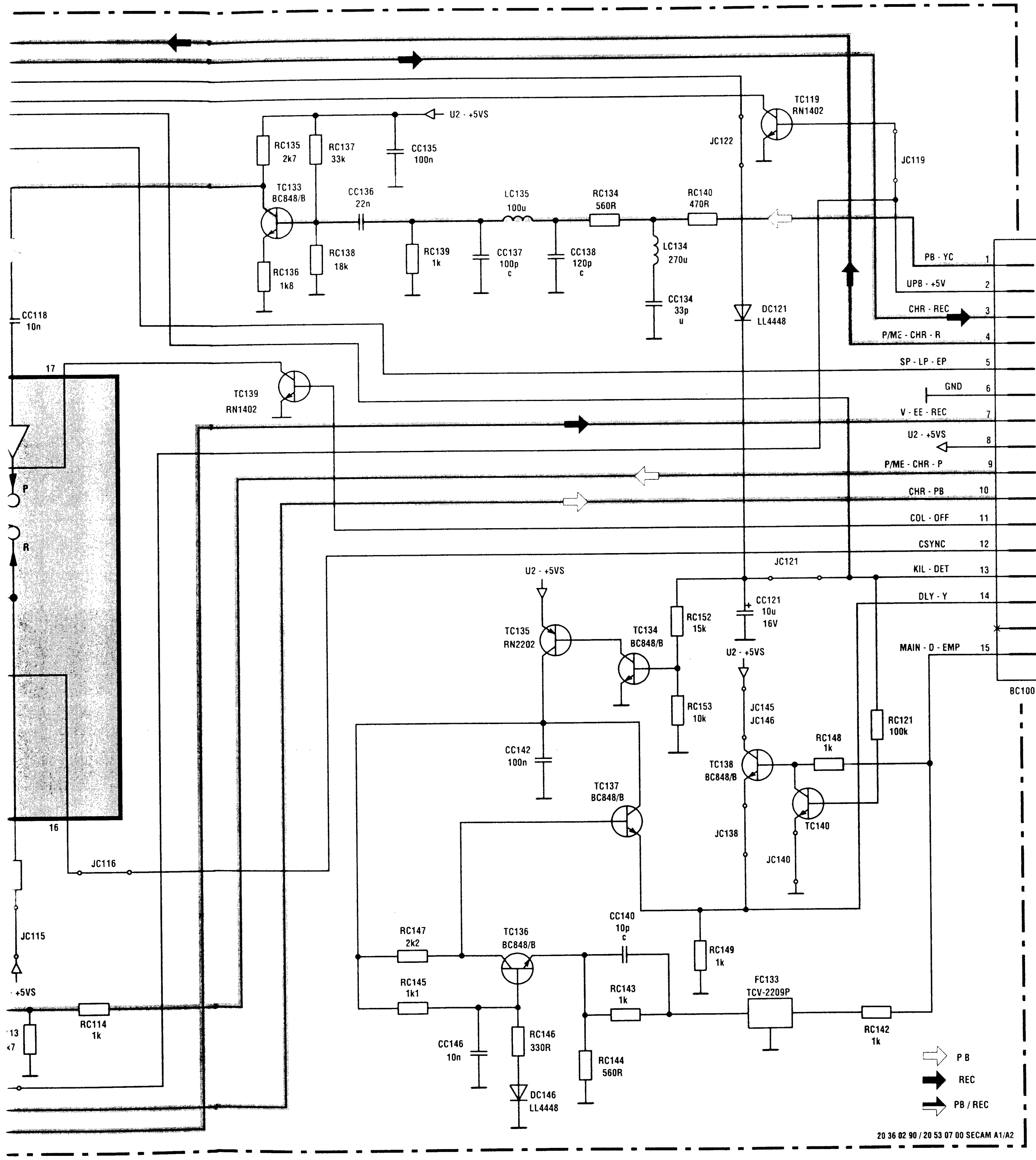


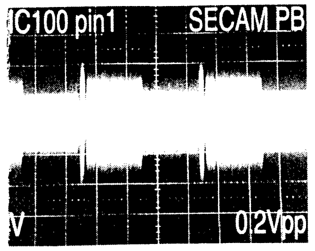
⑦

- PIASTRA SECAM - PLATINA SECAM

- ESQUEMA

SECAM BOARD - PLATINE SECAM - SECAM LEITERPLATTE
PIASTRA SECAM - PLATINA SECAM


U2 - +5VS
RC135
2k7
RC137
33k
CC135
100n
TC119
RN1402
JC122
JC119
TC133
BC848/B
CC136
22n
LC135
100u
RC134
560R
RC140
470R
RC136
1k8
RC138
18k
RC139
1k
CC137
100p
CC138
120p
LC134
270u
CC134
33p
DC121
LL4448
CC118
10n
17
TC139
RN1402
16
JC116
JC115
+5VS
RC114
1k
PB - YC
UPB - +5V
CHR - REC
P/ME - CHR - R
SP - LP - EP
GND
V - EE - REC
U2 - +5VS
P/ME - CHR - P
CHR - PB
COL - OFF
CSYNC
KIL - DET
DLY - Y
MAIN - D - EMP
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
BC100
to MAIN BOARD
MAIN VIDEO
PAL/MES/SEC/NTSC
①
②
③
④
⑤
⑥
⑦
JC121
CC121
10u
16V
TC135
RN2202
TC134
BC848/B
RC152
15k
RC153
10k
U2 - +5VS
JC145
JC146
RC148
1k
RC121
100k
CC142
100n
TC137
BC848/B
TC138
BC848/B
TC140
JC138
JC140
RC147
2k2
TC136
BC848/B
CC140
10p
RC149
1k
RC145
1k1
RC143
1k
FC133
TCV-2209P
RC142
1k
CC146
10n
RC146
330R
RC144
560R
DC146
LL4448
PB
REC
PB / REC
20 36 02 90 / 20 53 07 00 SECAM A1/A2



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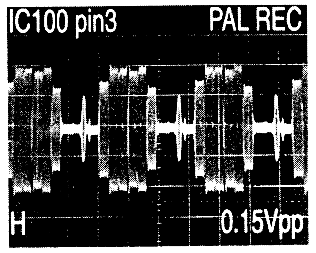

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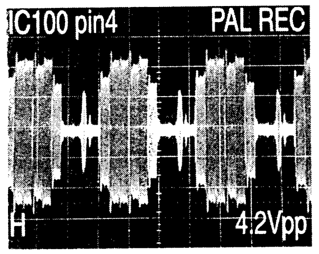

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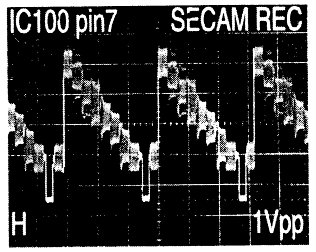

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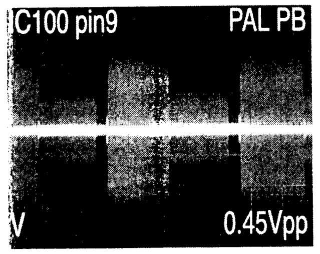
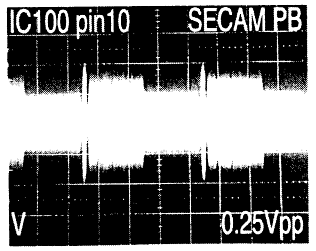


⑤



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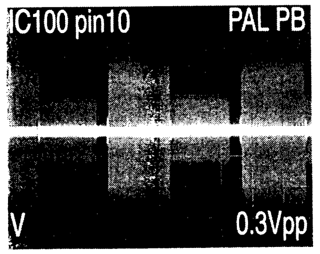

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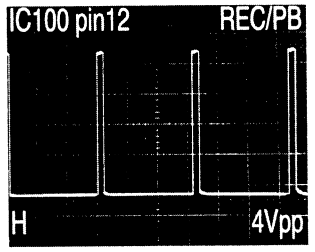
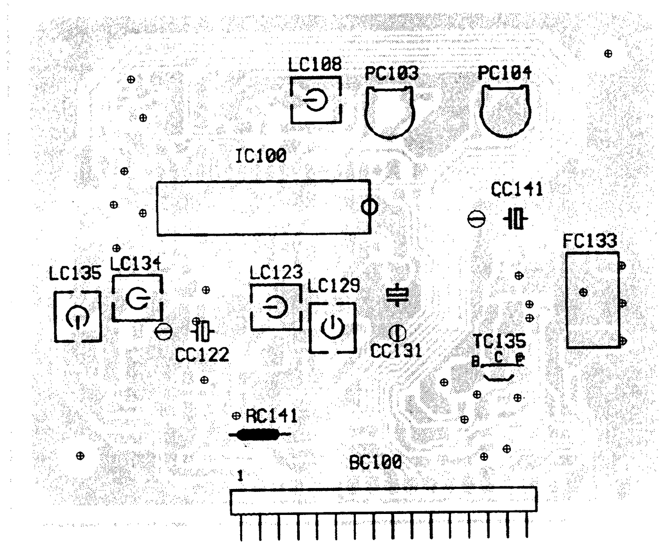
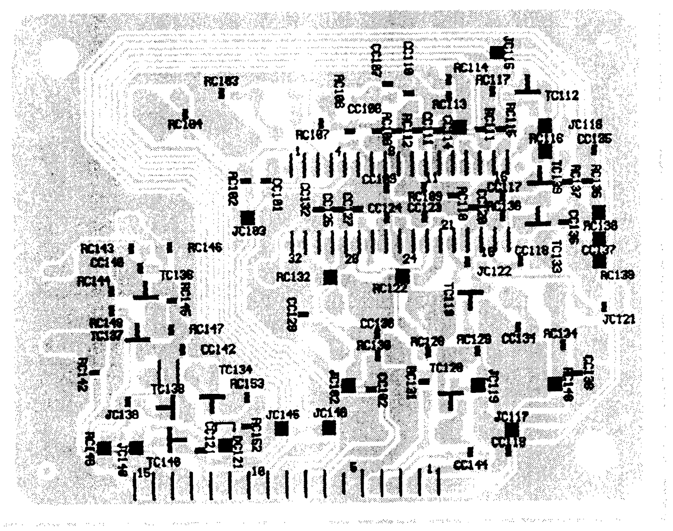


⑧

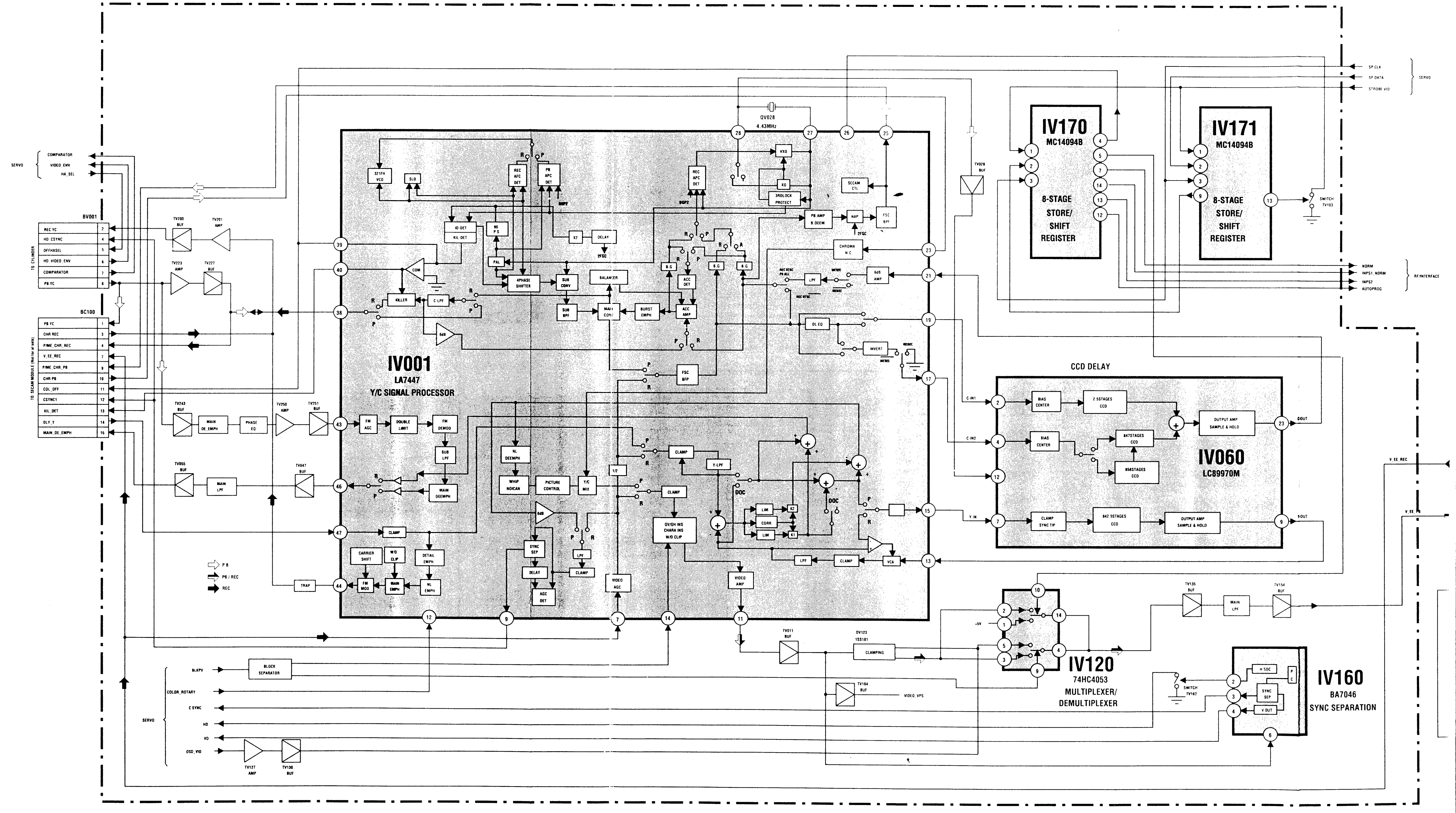
Component side -Côté composants - Bestückungsseite - Lato componenti - Lado componentes


LC108
PC103
PC104
IC100
CC141
FC133
LC135
LC134
LC123
LC129
CC122
CC131
TC135
RC141
BC100
1

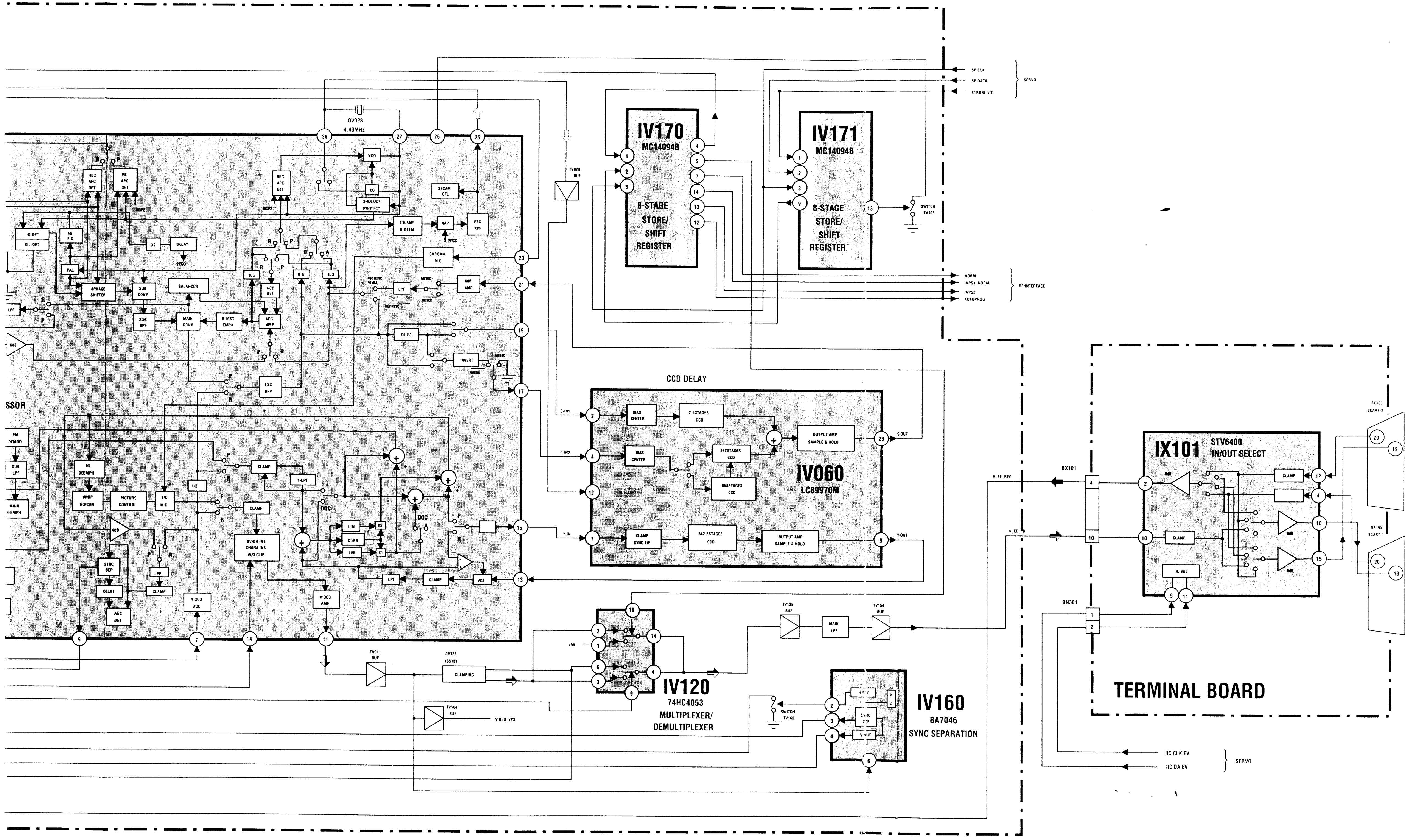
Solder side -Côté cuivre - Lötseite - Lato saldature - Lado del cobre


RC103
RC104
RC107
CC108
RC114
RC117
TC112
JC118
RC116
CC124
JC103
RC143
RC146
TC136
RC147
CC142
RC132
RC122
JC122
RC139
JC121
TC134
RC153
TC120
JC146
JC136
TC146
CC144

BLOCK DIAGRAM VIDEO SIGNAL PROCESSING - SCHEMA SYNOPTIQUE TRAITEMENT VIDEO - BLOCKSCHALTBILD VIDEO SIGNALVERARBEITUNG - SCHEMA A BLOCCHI ELABORAZIONE VIDEO - ESQUEMA DE BLOQUES TRATAMIENTO VIDEO


SERVO
COMPARATOR
VIDEO_ENV
HA_SEL
BV001
REC YC 2
HD CSYNC 4
OFFHASEL 5
HD_VIDEO_ENV 6
COMPARATOR 7
PB YC 8
TO CYLINDER
BC100
PB YC 1
CHR REC 3
P/ME_CHR_REC 4
V_EE_REC 7
P/ME_CHR_PB 9
CHR PB 10
COL_OFF 11
CSYNC1 12
KIL_DET 13
DLY_Y 14
MAIN_DE_EMPH 15
TO SECAM MODULE (Not for all sets)
TV200 BUF
TV201 AMP
TV223 AMP
TV227 BUF
TV243 BUF
MAIN DE_EMPH
PHASE EQ
TV250 AMP
TV251 BUF
TV055 BUF
MAIN LPF
TV047 BUF
TRAP
P B
PB / REC
REC
IV001
LA7447
Y/C SIGNAL PROCESSOR
QV028
4.43MHz
321FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
VXO
XO
3RDLOCK PROTECT
SECAM CTL
PB AMP B.DEEM
NAP
2FSC
FSC BPF
ID-DET
KIL-DET
90 P S
PAL
X2
DELAY
COM
KILLER
C-LPF
4PHASE SHIFTER
SUB CONV
SUB BPF
BALANCER
MAIN CONV
BURST EMPH
ACC DET
ACC AMP
B.G
CHROMA N.C
LPF
6dB AMP
DL EQ
INVERT
6dB
FSC BFP
FM AGC
DOUBLE LIMIT
FM DEMOD
SUB LPF
MAIN DEEMPH
NL DEEMPH
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
1/2
CLAMP
Y-LPF
DOC
LIM
CORR
K1
K2
VCA
QV/QH INS CHARA INS W/O CLIP
VIDEO AMP
VIDEO AGC
SYNC SEP
DELAY
AGC DET
CARRIER SHIFT
W/O CLIP
DETAIL EMPH
FM MOD
MAIN EMPH
NL EMPH
TV028 BUF
IV170
MC14094B
8-STAGE STORE/ SHIFT REGISTER
IV171
MC14094B
8-STAGE STORE/ SHIFT REGISTER
SWITCH TV103
SP CLK
SP DATA
STROBE VID
SERVO
NORM
INPS1_NORM
INPS2
AUTOPROG
RF/INTERFACE
CCD DELAY
C-IN1
C-IN2
Y IN
BIAS CENTER
2.5STAGES CCD
847STAGES CCD
858STAGES CCD
OUTPUT AMP SAMPLE & HOLD
CLAMP SYNC TIP
842.5STAGES CCD
C-OUT
Y-OUT
IV060
LC89970M
V_EE_REC
V_EE_PB
TV135 BUF
MAIN LPF
TV154 BUF
TV011 BUF
DV123 1SS181
CLAMPING
+5V
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
TV164 BUF
VIDEO_VPS
SWITCH TV162
H SDC
SYNC SEP
V OUT
IV160
BA7046
SYNC SEPARATION
BLKPV
BLOCK SEPARATOR
COLOR_ROTARY
C SYNC
HD
VD
OSD_VID
TV127 AMP
TV130 BUF

HEMA SYNOPTIQUE TRAITEMENT VIDEO - BLOCKSCHALTBILD VIDEO SIGNALVERARBEITUNG -
UEMA DE BLOQUES TRATAMIENTO VIDEO


SSOR
QV028
4.43MHz
28
27
26
25
VXO
XO
REC APC DET
REC AFC DET
PB APC DET
ID-DET
KIL-DET
90 PS
PAL
4PHASE SHIFTER
SUB CONV
BALANCER
X2
DELAY
2fSC
SUB BPF
MAIN CONV
BURST EMPH
ACC DET
ACC AMP
B.G
3ROLOCK PROTECT
SECAM CTL
PB AMP
B.DEEM
NAP
FSC BPF
CHROMA N.C
LPF
6dB AMP
DL EQ
INVERT
FSC BPF
23
21
19
17
15
13
FM DEMOD
SUB LPF
MAIN DEEMPH
NL DEEMPH
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
CLAMP
Y-LPF
LIM
CORR
K2
K1
DOC
DV/DH INS CHARA INS W/O CLIP
VCA
SYNC SEP
DELAY
AGC DET
LPF
CLAMP
VIDEO AGC
VIDEO AMP
9
7
14
11
TV628 BUF
IV170
MC14094B
8-STAGE STORE/ SHIFT REGISTER
IV171
MC14094B
8-STAGE STORE/ SHIFT REGISTER
SWITCH TV103
SP CLK
SP DATA
STROBE VID
SERVO
NORM
INPS1_NORM
INPS2
AUTOPROG
RF/INTERFACE
CCD DELAY
C-IN1
C-IN2
Y-IN
BIAS CENTER
2.5STAGES CCD
847STAGES CCD
858STAGES CCD
OUTPUT AMP SAMPLE & HOLD
CLAMP SYNC TIP
842.5STAGES CCD
C-OUT
Y-OUT
IV060
LC89970M
TV011 BUF
DV123 1SS181
CLAMPING
TV164 BUF
VIDEO_VPS
+5V
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
TV135 BUF
MAIN LPF
TV154 BUF
SWITCH TV162
H SYNC
SYNC SEP
V OUT
P C
IV160
BA7046
SYNC SEPARATION
V_EE_REC
V_EE_PB
BX101
BN301
IX101
STV6400
IN/OUT SELECT
6dB
CLAMP
IIC BUS
BX103 SCART-2
BX102 SCART-1
IIC CLK EV
IIC DA EV
SERVO
TERMINAL BOARD

MEASUREMENTS VIDEO SIGNAL PROCESSING - MESURES TRAITEMENT VIDEO - MESSUNGEN VIDEO SIGNALVERARBEITUNG
MISURI ELABORAZIONE VIDEO - MEDIDAS TRATAMIENTO VIDEO

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
DV123	1	3.1	3.1	3.1
	2	2.6	2.6	2.6
	3	2.6	2.6	2.6
IV001	1	2.3	4.5	2.3
	2	3.1	3.1	3.1
	3	2.5	2.5	2.5
	4	1.5	2	1.5
	5	2.4	2.4	2.4
	6	2.8	2.8	4.2
	7	3	3	3
	8	5	5	5
	9	0.5	0.5	0.5
	10	3.1	3.1	3.1
	11	2	2.1	2
	12	2.4	2.4	2.4
	13	2.2	2.2	2.2
	14	0.2	0.2	0.2
	15	1.2	1.2	1.2
	16	2.3	2.2	2.3
	17	2.5	2.5	2.5
	18	0	0	0
	19	2.6	2.6	2.6
	20	0	0	0
	21	2.5	2.5	2.5
	22	0	0	0
	23	1.9	1.9	1.9
	24	0	0	0
	25	0	2.5	0
	26	0.2	0.2	0.2
	27	4	4	4
	28	2.8	2.8	2.8
	29	2.1	2.1	2.1
	30	0	0	0
	31	0	0	0
	32	0	0	0
	33	5	5	5
	34	0.6	0.6	0.6
	35	0	0.3	0
	36	2.9	2.9	2.9
	37	2.9	2.9	2.9
	38	2.3	3.2	2.3
	39	3	3	3
	40	3.7	3.7	3.7
	41	1.5	2	1.6
	42	0	0	0
	43	2.3	3.2	2.3
	44	3	3.6	3
	45	4.2	4.2	4.2
	46	2.3	3.2	2.3
	47	3	3.2	3
	48	2.3	4.5	2.3

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
IV060	1	0	0	0
	2	2.3	2.3	2.3
	3	5.1	5.1	5.1
	4	2.3	2.3	2.3
	5	0	0	0
	6	0	0	0
	7	2.3	2.3	2.3
	8	0	0	0
	9	1.2	1.2	1.2
	10	0	0	0
	11	2.3	2.3	2.3
	12	1.2	1.2	1.2
	13	0	0	0
	14	2	2	2
	15	2	2	2
	16	5	5	5
	17	0	0	0
	18	5	5	5
	19	8.5	8.5	8.5
	20	4.3	4.3	4.3
	21	0	0	0
	22	0	0	0
	23	1.3	1.3	1.3
	24	0	0	0
IV120	1	5.1	5.1	5.1
	2	3.1	3.1	3.1
	3	3.1	2.9	3.1
	4	3.1	2.9	3.1
	5	2.7	2.7	2.7
	6	0	0	0
	7	0	0	0
	8	0	0	0
	9	5.1	5.1	5.1
	10	0	0	0
	11	0	0	0
	12	3.1	2.9	3.1
	13	0.1	0.1	0.1
	14	3.1	2.9	3.1
	15	3.1	2.9	3.1
	16	5.1	5.1	5.1
IV160	1	2.1	2.1	2.1
	2	4.7	4.7	4.7
	3	0.8	0.8	0.8
	4	5	5	5
	5	0	0	0
	6	2.4	2.2	2.4
	7	5.1	5.1	5.1
	8	2.2	2.2	2.2

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
IV170	1	4.8	4.8	4.8
	2	0	0	0
	3	4.8	4.8	4.8
	4	0	0	0
	5	0	0	0
	6	0	0	0
	7	0	0	0
	8	0	0	0
	9	0	0	0
	10	0	0	0
	11	0	0	0
	12	0	0	0
	13	0	0	0
	14	4.9	4.9	4.9
	15	5.1	5.1	5.1
	16	5.1	5.1	5.1
IV171	1	4.8	4.8	4.8
	2	0	0	0
	3	4.8	4.8	4.8
	4	0	0	0
	5	0	0	0
	6	0	5	0
	7	0	0	0
IV171	8	0	0	0
	9	0	0	0
	10	0	0	0
	11	0	0	0
	12	0	0	0
	13	4.9	4.9	4.9
	14	0	0	0
	15	5.1	5.1	5.1
	16	5.1	5.1	5.1
TV002	E	0	0	0
	B	0	5	0
	C	0	0	0
TV003	E	1.6	2.5	1.6
	B	0	3.2	0
	C	2.5	2.5	2.5
TV006	E	2.7	2.7	4.2
	B	0	0	4.8
	C	5.1	5.1	5.1
TV011	E	2.7	2.7	2.7
	B	2	2	2
	C	0	0	0

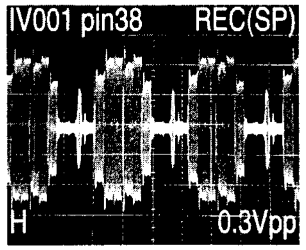
VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
TV028	E	2.2	2	2.2
	B	2.8	2.7	2.8
	C	5	5	5
TV047	E	3	3.8	3
	B	2.3	3.2	2.3
	C	0	0	0
TV055	E	2.3	3.2	2.3
	B	3	3.8	3
	C	5.1	5.1	5.1
TV103	E	0	0	0
	B	4.9	4.9	4.9
	C	0	0	0
TV126	E	0	0	0
	B	2.3	2.3	2.3
	C	-0.1	0	0
TV127	E	4.3	4.3	4.3
	B	3.7	3.7	3.7
	C	2.4	2.4	2.4
TV130	E	1.7	1.7	1.7
	B	2.4	2.4	2.4
	C	5.1	5.1	5.1
TV135	E	2.4	2.1	2.4
	B	3	2.7	3
	C	5.1	5.1	5.1
TV140	E	1.6	1.6	1.6
	B	1	1	1
	C	5	5	5
TV141	E	1.6	1.6	1.6
	B	2.3	2.3	2.3
	C	5.1	5.1	5.1
TV143	E	2.4	2.4	2.4
	B	1.8	1.8	1.8
	C	0	0	0
TV145	E	3.3	3.3	3.3
	B	2.4	2.4	2.4
	C	5.1	5.1	5.1
TV147	E	3.3	3.3	3.3
	B	4	4	4
	C	3.4	3.4	3.4

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
TV149	E	3.4	3.4	3.4
	B	4	4	4
	C	0.2	0.2	0.2
TV154	E	1.8	1.6	1.8
	B	2.4	2.2	2.4
	C	5.1	5.1	5.1
TV164	E	0.2	0.2	0.2
	B	2.7	2.7	2.7
	C	0.2	0.2	0.2
TV170	E	0	0	0
	B	0	4.7	0
	C	5.1	0	5.1
TV171	E	5.1	5.1	5.1
	B	5.1	4.3	5.1
	C	0	5	0
TV186	E	0	0	0
	B	0	0	0
	C	0.3	0.3	0.3
TV187	E	0	0	0
	B	0.3	0.3	0.3
	C	0	1.2	1.2
TV188	E	1.9	1.9	4.1
	B	0	0	4.8
	C	5.1	5.1	5.1
TV200	E	2.7	4.4	2.7
	B	3.3	5	3.3
	C	5.1	5.1	5.1
TV201	E	1.2	4.3	1.2
	B	1.8	1.8	1.8
	C	3.3	5.1	3.3
TV223	E	0	1.1	0
	B	0	1.7	0
	C	0	3.6	0
TV225	E	0	0	0
	B	0	0	0
	C	0	0	0
TV227	E	0	3	0
	B	0	3.6	0
	C	0	5	0

VIDEO		MODE		
LOC	PIN	EE	PLAY	REC.
TV243	E	0	3.6	0
	B	0	2.9	0
	C	0	1.8	0
TV248	E	0	1.2	0
	B	0	1.8	0
	C	0	3.7	0
TV250	E	0	0.6	0
	B	0	1.2	0
	C	0	4.6	0
TV251	E	0	3.9	0
	B	0	4.5	0
	C	0	5	0

NOTES

MEASUREMENTS VIDEO SIGNAL PROCESSING - MESURES TRAITEMENT VIDEO - MESSUNGEN VIDEO SIGNALVERARBEITUNG
MISURI ELABORAZIONE VIDEO - MEDIDAS TRATAMIENTO VIDEO



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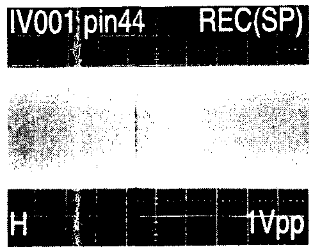

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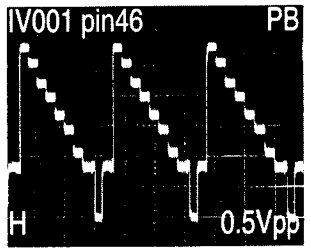
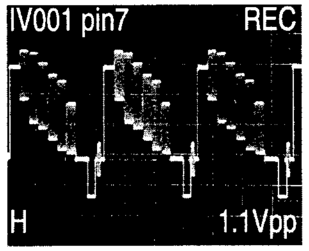
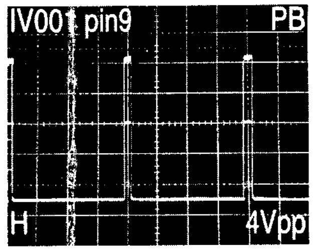


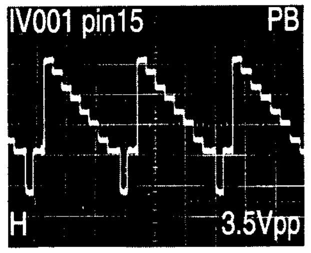
③



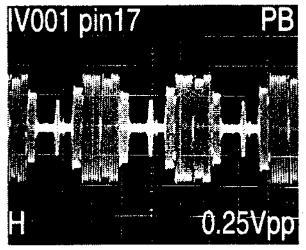
④



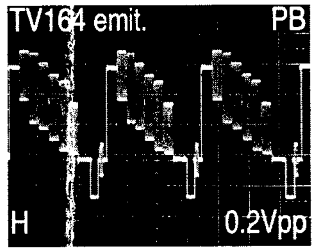
⑤



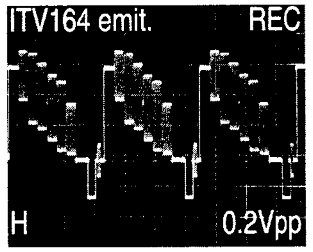
⑥



⑦



⑧

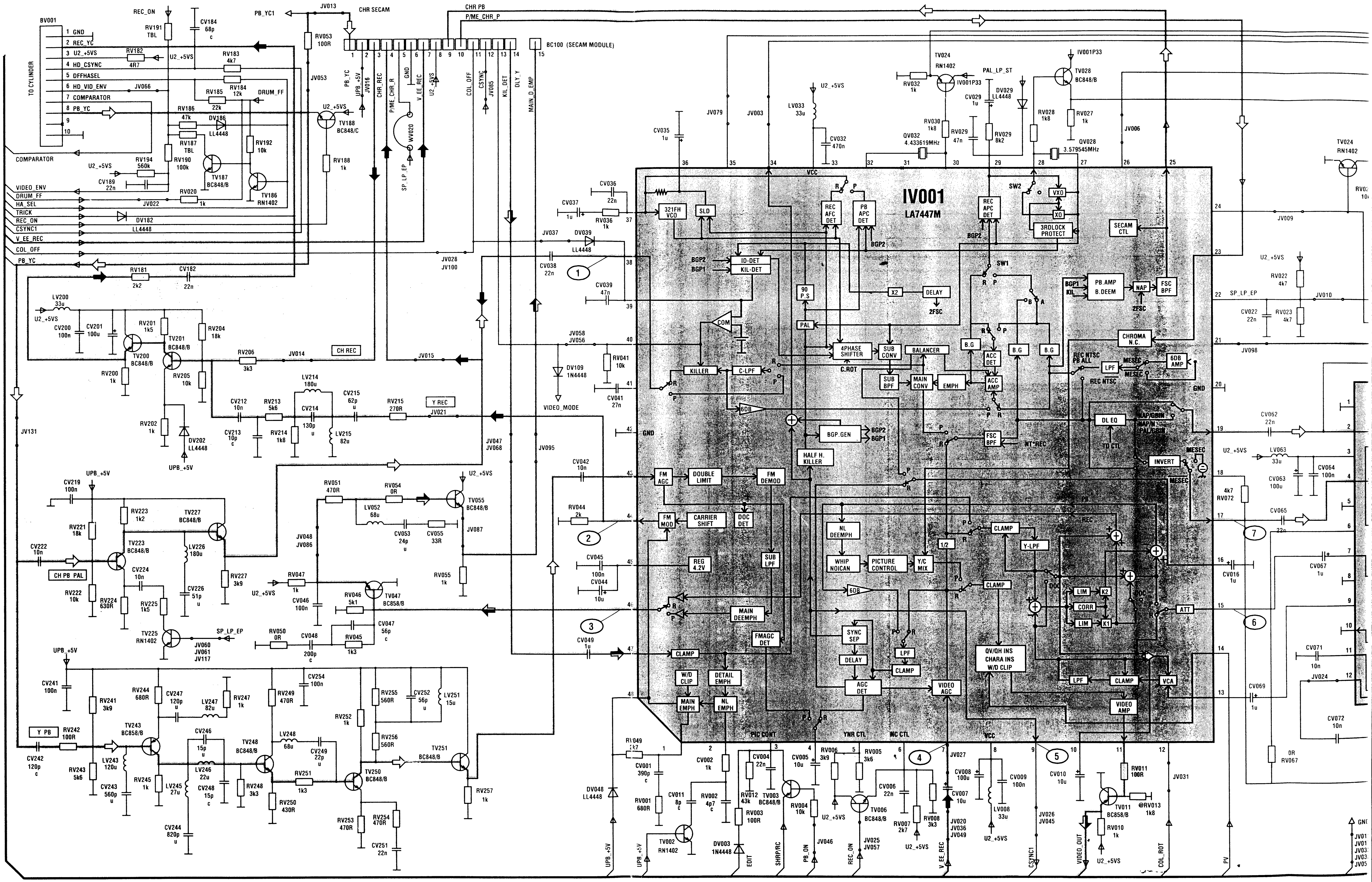


⑨

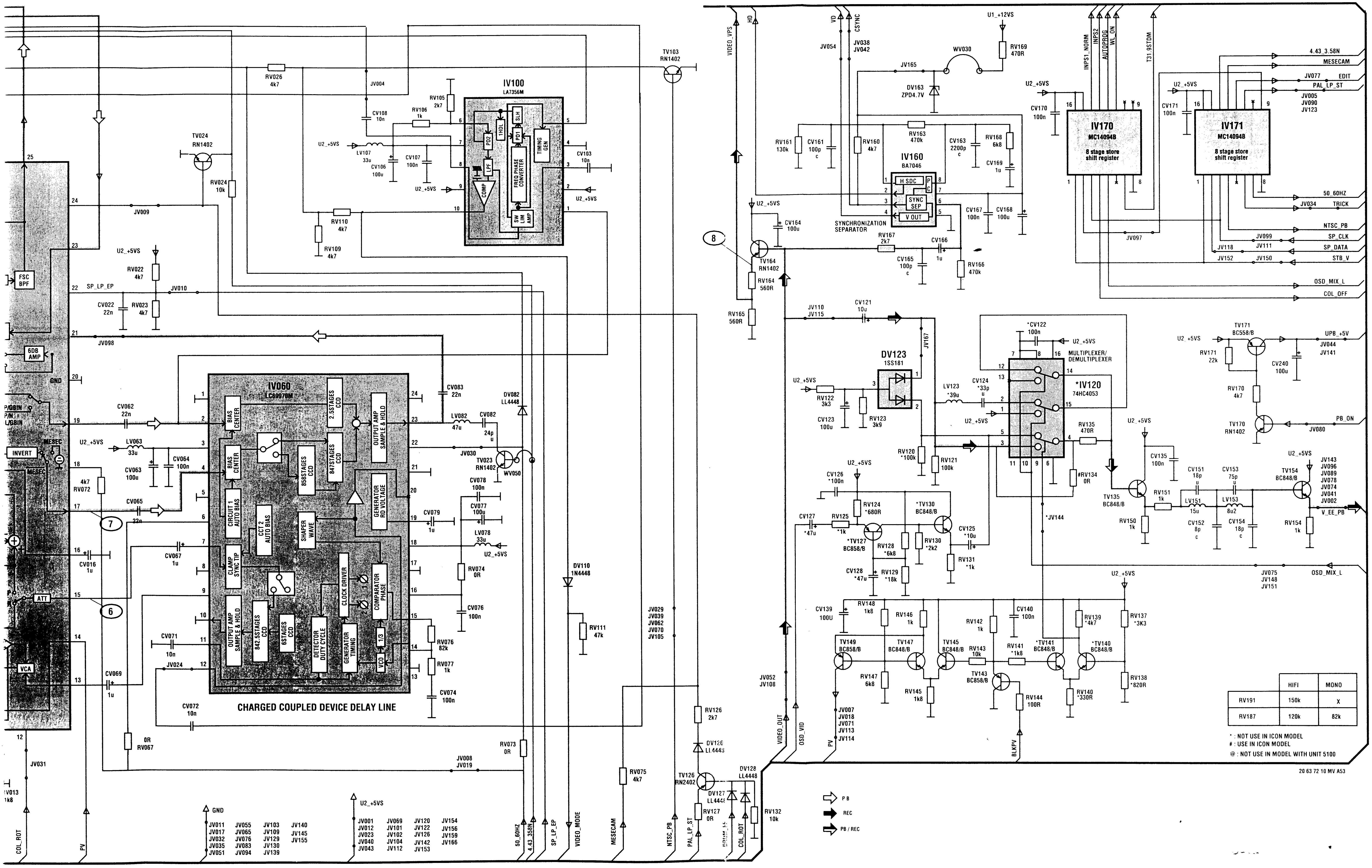
NOTES

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (VPH 6790)


IV001
LA7447M
BV001
TO CYLINDER
1 GND
2 REC_YC
3 U2_+5VS
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
COMPARATOR
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
V_EE_REC
COL_OFF
PB_YC
BC100 (SECAM MODULE)
CHR SECAM
CHR PB
P/ME_CHR_P
PB_YC1
REC_ON
DRUM_FF
CH REC
Y REC
CH PB PAL
Y PB
SP_LP_EP
VIDEO_MODE
321FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
VXO
XO
3RDLOCK PROTECT
SECAM CTL
ID-DET
KIL-DET
90 P.S
X2
DELAY
2FSC
PB.AMP B.DEEM
NAP
FSC BPF
COM
PAL
4PHASE SHIFTER
C.ROT
SUB CONV
BALANCER
B.G
CHROMA N.C.
KILLER
C-LPF
SUB BPF
MAIN CONV
EMPH
ACC DET
ACC AMP
LPF
6DB AMP
6DB
BGP.GEN
FSC BPF
DL EQ
HALF H. KILLER
INVERT
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
CLAMP
Y-LPF
1/2
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
MAIN DEEMPH
LIM
CORR
K1
K2
ATT
FMAGC DET
SYNC SEP
LPF
QV/QH INS CHARA INS W/D CLIP
W/D CLIP
DETAIL EMPH
AGC DET
VIDEO AGC
VCA
MAIN EMPH
NL EMPH
VIDEO AMP
PIC CONT
YNR CTL
NC CTL
VCC
GND
UPB_+5V
U2_+5VS
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV
QV032 4.433619MHz
QV028 3.579545MHz
PAL_LP_ST
1
2
3
4
5
6
7

TAMIENTO VIDEO


IV100
LA7356M
PD2
HOLD
SLH
PD1
LPF
FREQ PHASE CONVERTER
TIMING GEN
COMP
SW LIM AMP
TV103
RN1402
TV024
RN1402
RV026
4k7
JV004
RV105
2k7
RV106
1k
CV108
10n
LV107
33u
CV106
100u
CV107
100n
CV103
10n
U2_+5VS
RV024
10k
RV110
4k7
RV109
4k7
JV009
FSC BPF
6DB AMP
INVERT
MESEC
ATT
VCA
GND
RV022
4k7
RV023
4k7
CV022
22n
SP_LP_EP
JV010
JV098
IV060
LC89970M
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CCT 2 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842.5STAGES CCD
6STAGES CCD
858STAGES CCD
847STAGES CCD
2.5STAGES CCD
SHAPER WAVE
GENERATOR RD VOLTAGE
CLOCK DRIVER
DETECTOR DUTY CYCLE
GENERATOR TIMING
COMPARATOR PHASE
VCO
1/3
CHARGED COUPLED DEVICE DELAY LINE
CV062
22n
LV063
33u
CV063
100u
CV064
100n
CV065
22n
CV067
1u
CV016
1u
RV072
4k7
CV071
10n
JV024
CV069
1u
CV072
10n
RV067
0R
JV031
CV083
22n
LV082
47u
CV082
24p
DV082
LL4448
JV030
TV023
RN1402
WV050
CV078
100n
CV077
100u
LV078
33u
CV079
1u
RV074
0R
CV076
100n
RV076
82k
RV077
1k
CV074
100n
DV110
1N4448
RV111
47k
JV029
JV039
JV062
JV070
JV105
RV073
0R
JV008
JV019
RV075
4k7
RV126
2k7
DV126
LL4448
TV126
RN2402
DV127
LL4448
RV127
0R
DV128
LL4448
RV132
10k
GND
JV011 JV055 JV103 JV140
JV017 JV065 JV109 JV145
JV032 JV076 JV129 JV155
JV035 JV083 JV130
JV051 JV094 JV139
U2_+5VS
JV001 JV069 JV120 JV154
JV012 JV101 JV122 JV156
JV023 JV102 JV126 JV159
JV040 JV104 JV142 JV166
JV043 JV112 JV153
COL_ROT
PV
50_60HZ
4.43_358N
SP_LP_EP
VIDEO_MODE
MESECAM
NTSC_PB
PAL_LP_ST
COL_ROT
VIDEO_VPS
HD
VD
CSYNC
JV054
JV038
JV042
U1_+12VS
RV169
470R
WV030
JV165
DV163
ZPD4.7V
RV161
130k
CV161
100p
RV160
4k7
RV163
470k
CV163
2200p
RV168
6k8
CV169
1u
IV160
BA7046
H SDC
SYNC SEP
V OUT
SYNCHRONIZATION SEPARATOR
CV167
100n
CV168
100u
CV164
100u
TV164
RN1402
RV164
560R
RV165
560R
RV167
2k7
CV166
1u
CV165
100p
RV166
470k
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
CV170
100n
CV171
100n
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31.9STDM
4.43_3.58N
MESECAM
JV077
EDIT
PAL_LP_ST
JV005
JV090
JV123
50_60HZ
JV034
TRICK
NTSC_PB
JV099
SP_CLK
JV111
SP_DATA
JV118
JV152
JV150
STB_V
JV097
OSD_MIX_L
COL_OFF
JV110
JV115
CV121
10u
JV167
DV123
1SS181
RV122
3k3
CV123
100u
RV123
3k9
LV123
*39u
CV124
*33p
*CV122
100n
MULTIPLEXER/ DEMULTIPLEXER
*IV120
74HC4053
RV135
470R
#RV134
0R
RV120
*100k
RV121
100k
*JV144
CV126
*100n
RV124
*680R
*TV130
BC848/B
CV127
*47u
RV125
*1k
*TV127
BC858/B
RV128
*6k8
RV130
*2k2
CV125
*10u
RV131
*1k
CV128
*47u
RV129
*18k
TV171
BC558/B
RV171
22k
CV240
100u
UPB_+5V
JV044
JV141
RV170
4k7
TV170
RN1402
PB_ON
JV080
CV135
100n
TV135
BC848/B
RV151
1k
CV151
18p
LV151
15u
CV153
75p
LV153
8u2
TV154
BC848/B
JV143
JV096
JV089
JV078
JV074
JV041
JV002
V_EE_PB
RV150
1k
CV152
8p
CV154
18p
RV154
1k
JV075
JV148
JV151
OSD_MIX_L
CV139
100U
RV148
1k8
RV146
1k
RV142
1k
CV140
100n
RV139
*4k7
RV137
*3K3
TV149
BC858/B
TV147
BC848/B
TV145
BC848/B
RV143
10k
RV141
*1k8
*TV141
BC848/B
*TV140
BC848/B
TV143
BC858/B
RV147
6k8
RV145
1k8
RV144
100R
RV140
*330R
RV138
*820R
JV052
JV108
JV007
JV018
JV071
JV113
JV114
VIDEO_OUT
OSD_VID
PV
BLKPV
PB
REC
PB / REC
7
6
8

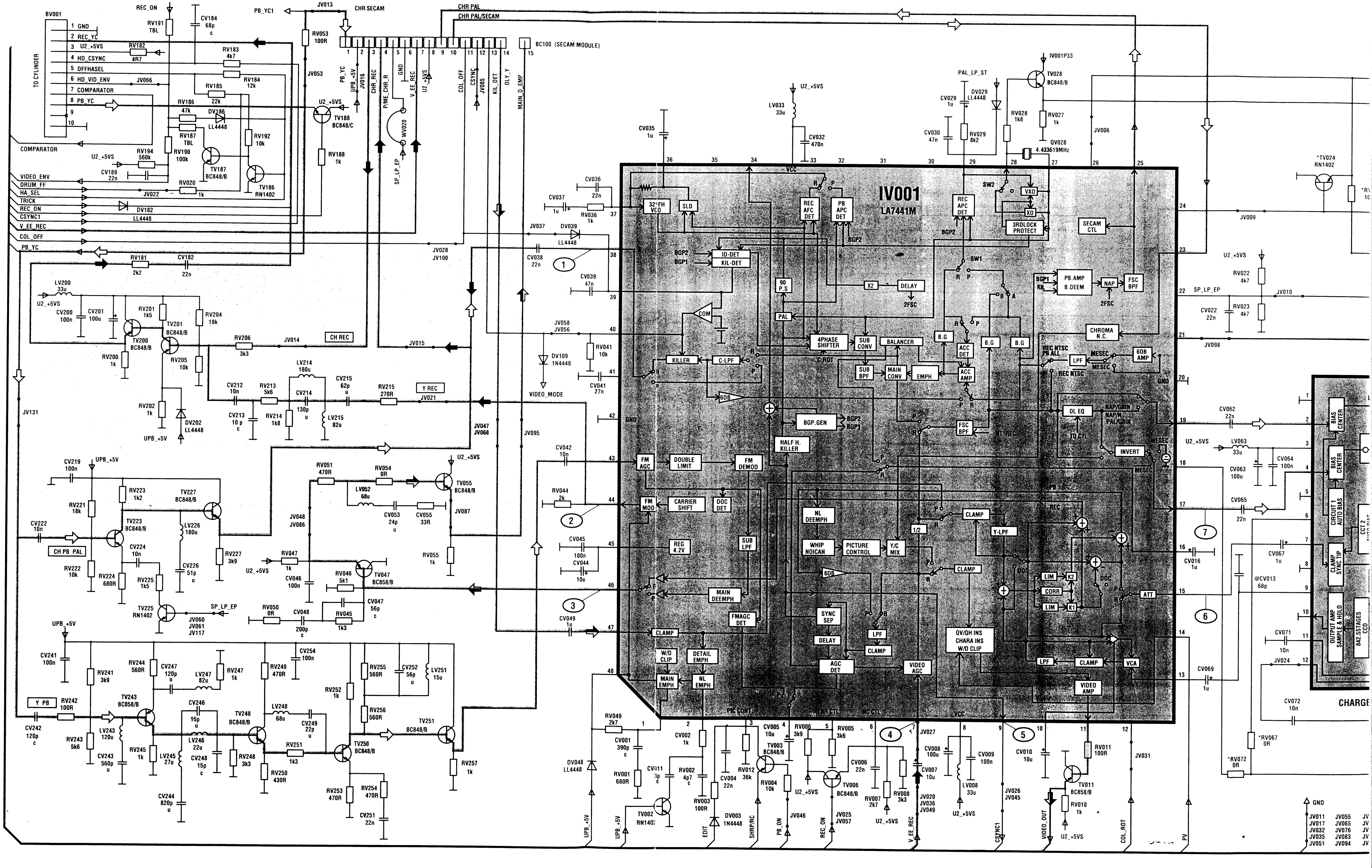
	HIFI	MONO
RV191	150k	X
RV187	120k	82k

* : NOT USE IN ICON MODEL
# : USE IN ICON MODEL
@ : NOT USE IN MODEL WITH UNIT 5100

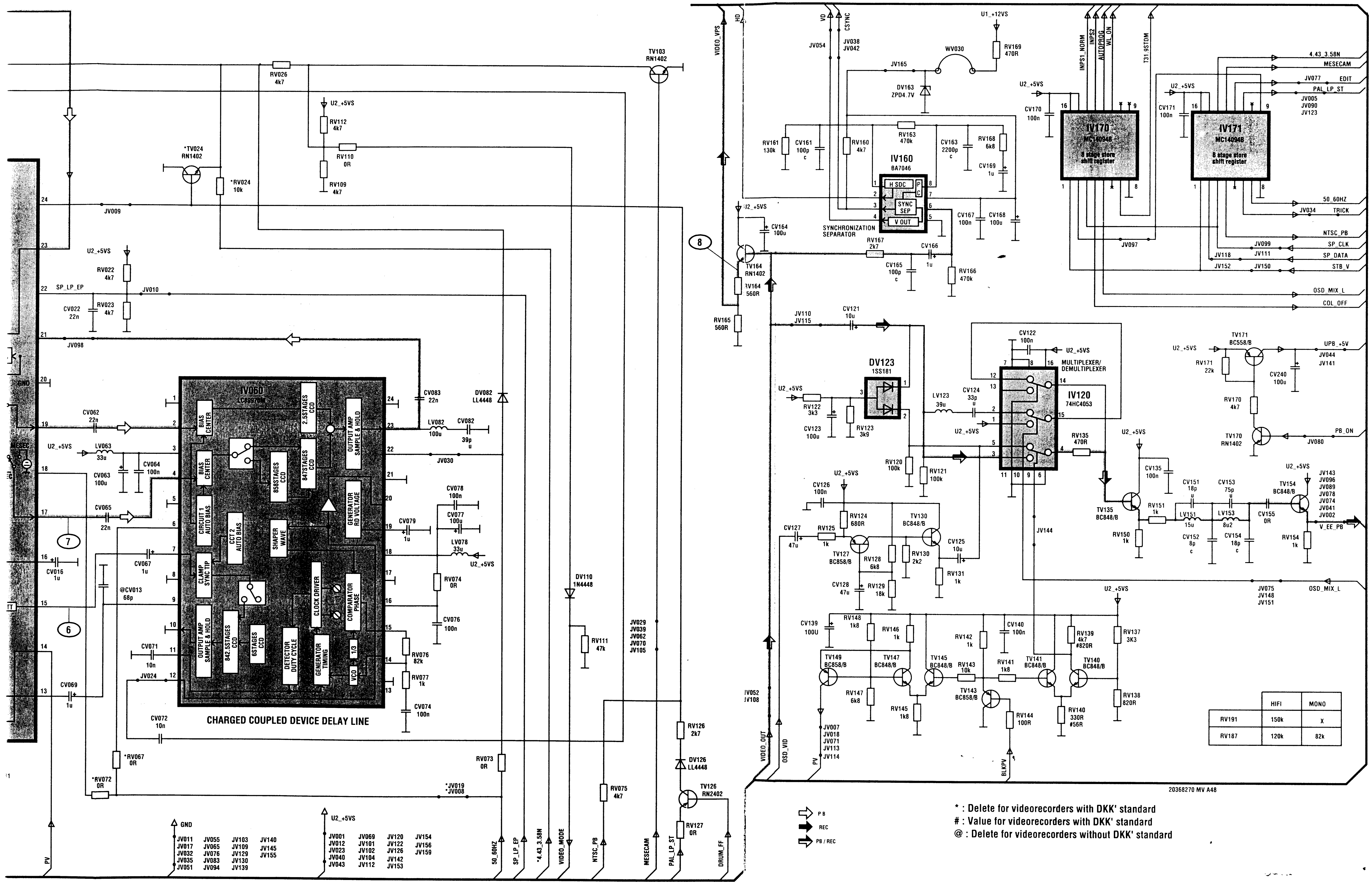
20 63 72 10 MV A53

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (M9571 HIFI - VR 6087/F - VR 8087 - VPH 6750)



BV001
1 GND
2 REC_YC
3 U2_+5VS
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
TO CYLINDER
COMPARATOR
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
V_EE_REC
COL_OFF
PB_YC
REC_ON
RV191 TBL
CV184 68p
PB_YC1
JV013
CHR SECAM
CHR PAL
CHR PAL/SECAM
RV053 100R
BC100 (SECAM MODULE)
RV182 4R7
RV183 4k7
RV184 12k
RV185 22k
RV186 47k
DV186 LL4448
RV187 TBL
RV190 100k
RV192 10k
TV187 BC848/B
TV186 RN1402
TV188 BC848/C
RV188 1k
RV194 560k
CV189 22n
RV020 1k
JV022
DV182 LL4448
JV066
JV053
U2_+5VS
PB_YC
UPB_+5V
JV016
CHR_REC
P/ME_CHR_R
GND
V_EE_REC
U2_+5VS
COL_OFF
CSYNC
JV085
KIL_DET
DLY_Y
MAIN_D_EMP
WV020
SP_LP_EP
RV181 2k2
CV182 22n
LV200 33u
CV200 100n
CV201 100u
RV201 1k5
TV201 BC848/B
TV200 BC848/B
RV204 18k
RV200 1k
RV205 10k
RV206 3k3
JV014
CH REC
JV015
JV028
JV100
RV202 1k
DV202 LL4448
CV212 10n
RV213 5k6
LV214 180u
CV214 130p
CV215 62p
RV215 270R
Y REC
JV021
CV213 10 p
RV214 1k8
LV215 82u
JV047
JV068
JV131
CV219 100n
RV223 1k2
TV227 BC848/B
RV221 18k
CV222 10n
TV223 BC848/B
LV226 180u
CH PB PAL
CV224 10n
CV226 51p
RV227 3k9
RV222 10k
RV224 680R
RV225 1k5
TV225 RN1402
SP_LP_EP
JV060
JV061
JV117
RV051 470R
RV054 0R
TV055 BC848/B
LV052 68u
CV053 24p
CV055 33R
JV048
JV086
JV087
RV047 1k
TV047 BC858/B
CV046 100n
RV046 5k1
RV055 1k
CV047 56p
RV050 0R
CV048 200p
RV045 1k3
UPB_+5V
CV241 100n
RV241 3k9
RV244 560R
CV247 120p
LV247 82u
RV247 1k
RV249 470R
CV254 100n
RV255 560R
CV252 56p
LV251 15u
Y PB
RV242 100R
TV243 BC858/B
CV246 15p
LV246 22u
TV248 BC848/B
LV248 68u
CV249 22p
RV252 1k
RV256 560R
TV251 BC848/B
CV242 120p
RV243 5k6
LV243 120u
RV245 1k
LV245 27u
CV248 15p
RV248 3k3
RV251 1k3
TV250 BC848/B
RV257 1k
CV243 560p
CV244 820p
RV250 430R
RV253 470R
RV254 470R
CV251 22n
CV036 22n
CV037 1u
RV036 1k
JV037
DV039 LL4448
CV038 22n
CV039 47n
JV058
JV056
RV041 10k
DV109 1N4448
CV041 27n
VIDEO_MODE
JV095
CV042 10n
RV044 2k
CV045 100n
CV044 10u
CV049 1u
CV035 1u
LV033 33u
U2_+5VS
CV032 470n
IV001
LA7441M
32*FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
SW2
VXO
XO
3RDLOCK PROTECT
SECAM CTL
BGP2
BGP1
ID-DET
KIL-DET
90 P.S
X2
DELAY
2FSC
SW1
PB.AMP B.DEEM
NAP
FSC BPF
COM
PAL
4PHASE SHIFTER
SUB CONV
BALANCER
B.G
ACC DET
ACC AMP
CHROMA N.C.
KILLER
C-LPF
C.ROT
SUB BPF
MAIN CONV
EMPH
LPF
6DB AMP
REC NTSC
MESEC
6DB
BGP.GEN
FSC BPF
DL EQ
NAP/GBIN
HALF H. KILLER
INVERT
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
CLAMP
Y-LPF
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
1/2
LIM
K2
CORR
K1
DOC
ATT
MAIN DEEMPH
FMAGC DET
SYNC SEP
DELAY
LPF
QV/QH INS CHARA INS W/D CLIP
VCA
W/D CLIP
DETAIL EMPH
AGC DET
VIDEO AGC
MAIN EMPH
NL EMPH
VIDEO AMP
VCC
GND
IV001P33
TV028 BC848/B
PAL_LP_ST
CV029 1u
DV029 LL4448
RV028 1k8
RV027 1k
CV030 47n
RV029 8k2
QV028 4.433619MHz
JV006
*TV024 RN1402
JV009
U2_+5VS
RV022 4k7
SP_LP_EP
JV010
CV022 22n
RV023 4k7
JV098
CV062 22n
U2_+5VS
LV063 33u
CV063 100u
CV064 100n
CV065 22n
CV016 1u
CV067 1u
@CV013 68p
CV071 10n
JV024
CV069 1u
CV072 10n
*RV067 0R
*RV072 0R
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842.5STAGES CCD
CHARGE
RV049 2k7
CV001 390p
RV001 680R
DV048 LL4448
CV011 3p
RV002 4p7
CV002 1k
CV005 10u
RV006 3k9
TV003 BC848/B
RV005 3k6
CV004 22n
RV012 36k
RV004 10k
RV003 100R
DV003 1N4448
TV002 RN1402
TV006 BC848/B
CV006 22n
RV007 2k7
RV008 3k3
JV027
CV008 100u
CV007 10u
JV020
JV036
JV049
CV009 100n
LV008 33u
CV010 10u
JV026
JV045
U2_+5VS
RV011 100R
TV011 BC858/B
RV010 1k
JV031
JV046
JV025
JV057
UPB_+5V
UPB_+5V
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV
GND
JV011 JV017 JV032 JV035 JV051
JV055 JV065 JV076 JV083 JV094
①
②
③
④
⑤
⑥
⑦


IV060
LC89970M
CHARGED COUPLED DEVICE DELAY LINE
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
2.5STAGES CCD
858STAGES CCD
847STAGES CCD
842.5STAGES CCD
6STAGES CCD
CCT 2 AUTO BIAS
SHAPER WAVE
GENERATOR RD VOLTAGE
CLOCK DRIVER
COMPARATOR PHASE
DETECTOR DUTY CYCLE
GENERATOR TIMING
VCO
1/3
IV160
BA7046
H SDC
SYNC SEP
V OUT
SYNCHRONIZATION SEPARATOR
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
DV123
1SS181
TV103 RN1402
*TV024 RN1402
TV164 RN1402
TV171 BC558/B
TV170 RN1402
TV135 BC848/B
TV154 BC848/B
TV127 BC858/B
TV130 BC848/B
TV149 BC858/B
TV147 BC848/B
TV145 BC848/B
TV143 BC858/B
TV141 BC848/B
TV140 BC848/B
TV126 RN2402
DV082 LL4448
DV110 1N4448
DV126 LL4448
DV163 ZPD4.7V
U2_+5VS
U1_+12VS
VIDEO_VPS
HD
VD
CSYNC
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31.9STDM
4.43_3.58N
MESECAM
EDIT
PAL_LP_ST
50_60HZ
TRICK
NTSC_PB
SP_CLK
SP_DATA
STB_V
OSD_MIX_L
COL_OFF
UPB_+5V
PB_ON
V_EE_PB
SP_LP_EP
VIDEO_OUT
OSD_VID
PV
BLKPV
50_60HZ
SP_LP_EP
*4.43_3.58N
VIDEO_MODE
NTSC_PB
MESECAM
PAL_LP_ST
DRUM_FF
GND
PB
REC
PB / REC
20368270 MV A48

	HIFI	MONO
RV191	150k	X
RV187	120k	82k

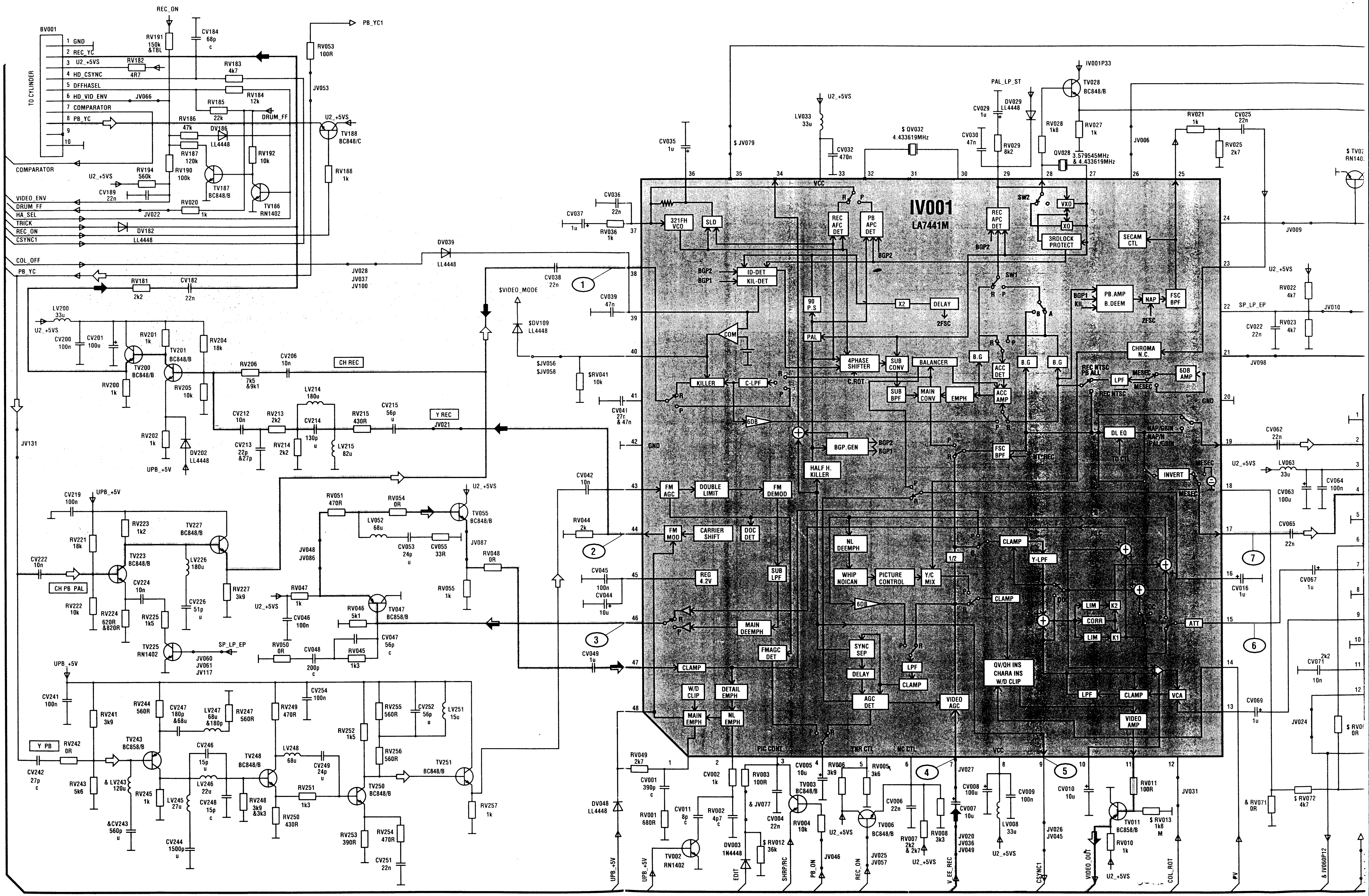
* : Delete for videorecorders with DKK' standard

# : Value for videorecorders with DKK' standard

@ : Delete for videorecorders without DKK' standard

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

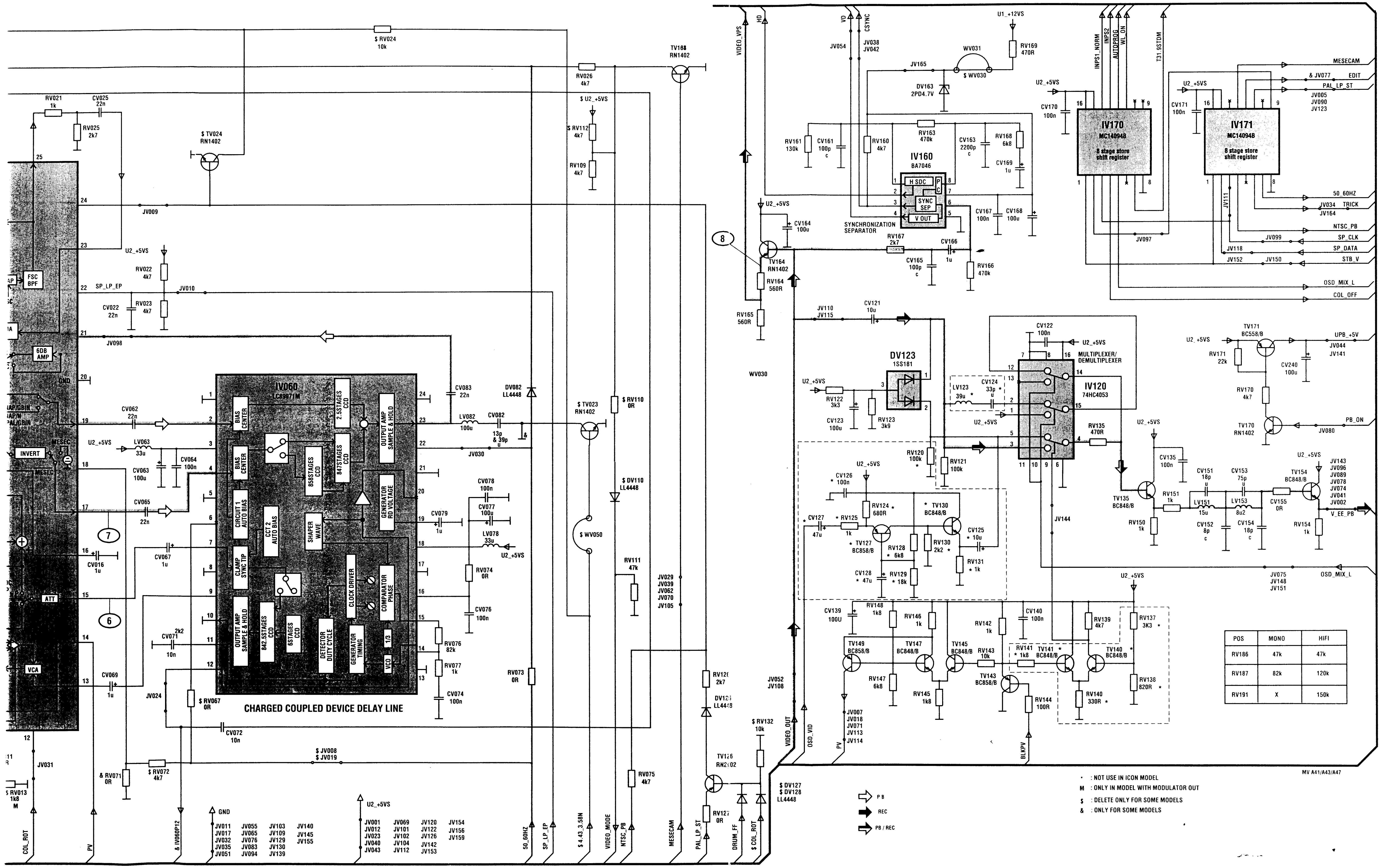
SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA **(VR 6081 - VR 7081 - VR 8083SH -V 3450 SV - VPH 66001 - VPH 6697 SENSAR - VPH 6751 - M 9560 HIFI/SA - T**



BV001
TO CYLINDER
1 GND
2 REC_YC
3 U2_+5VS
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
9
10
REC_ON
RV191 150k &TBL
CV184 68p c
PB_YC1
RV053 100R
JV053
RV182 4R7
RV183 4k7
RV184 12k
RV185 22k
DRUM_FF
JV066
RV186 47k
DV186 LL4448
RV187 120k
RV190 100k
RV192 10k
TV187 BC848/B
TV186 RN1402
U2_+5VS
TV188 BC848/C
RV188 1k
COMPARATOR
RV194 560k
CV189 22n
RV020 1k
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
JV022
DV182 LL4448
COL_OFF
PB_YC
DV039 LL4448
JV028 JV037 JV100
RV181 2k2
CV182 22n
LV200 33u
U2_+5VS
CV200 100n
CV201 100u
RV201 1k
TV201 BC848/B
RV204 18k
TV200 BC848/B
RV200 1k
RV205 10k
RV206 7k5 &9k1
CV206 10n
CH REC
$VIDEO_MODE
$DV109 LL4448
$JV056 $JV058
$RV041 10k
CV038 22n
CV039 47n
CV037 1u
CV036 22n
RV036 1k
LV214 180u
CV212 10n
RV213 2k2
CV214 130p u
RV215 430R
CV215 56p u
Y REC
JV021
CV213 22p &27p
RV214 2k2
LV215 82u
RV202 1k
DV202 LL4448
UPB_+5V
JV131
CV041 27n & 47n
CV042 10n
CV219 100n
UPB_+5V
RV223 1k2
TV227 BC848/B
RV221 18k
CV222 10n
TV223 BC848/B
LV226 180u
CH PB PAL
CV224 10n
RV222 10k
RV224 620R &820R
RV225 1k5
CV226 51p u
RV227 3k9
TV225 RN1402
SP_LP_EP
JV060 JV061 JV117
RV051 470R
RV054 0R
TV055 BC848/B
U2_+5VS
LV052 68u
CV053 24p u
CV055 33R
JV087
RV048 0R
JV048 JV086
RV047 1k
RV046 5k1
TV047 BC858/B
CV046 100n
CV047 56p c
RV050 0R
CV048 200p c
RV045 1k3
RV055 1k
RV044 2k
CV045 100n
CV044 10u
CV049 1u
UPB_+5V
CV241 100n
RV241 3k9
RV244 560R
CV247 180p &68u
LV247 68u &180p
RV247 560R
RV249 470R
CV254 100n
RV255 560R
CV252 56p u
LV251 15u
Y PB
RV242 0R
TV243 BC858/B
CV242 27p c
RV243 5k6
& LV243 120u
RV245 1k
&CV243 560p u
LV245 27u
CV246 15p u
LV246 22u
CV248 15p c
CV244 1500p u
TV248 BC848/B
LV248 68u
CV249 24p u
RV248 3k9 &3k3
RV251 1k3
RV250 430R
RV252 1k5
RV256 560R
TV250 BC848/B
TV251 BC848/B
RV253 390R
RV254 470R
CV251 22n
RV257 1k
IV001
LA7441M
VCC
321FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
VXO
XO
3RDLOCK PROTECT
SECAM CTL
SW2
SW1
BGP2
BGP1
ID-DET
KIL-DET
X2
DELAY
2FSC
90 P.S
PAL
COM
4PHASE SHIFTER
SUB CONV
BALANCER
B.G
ACC DET
ACC AMP
PB.AMP B.DEEM
NAP
FSC BPF
CHROMA N.C.
KILLER
C-LPF
C.ROT
SUB BPF
MAIN CONV
EMPH
LPF
MESEC
REC NTSC
PB ALL
6DB AMP
GND
6DB
BGP.GEN
FSC BPF
DL EQ
NAP/GBIN
PAL/GBIN
HALF H. KILLER
INVERT
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
CLAMP
Y-LPF
1/2
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
LIM
K2
CORR
K1
ATT
MAIN DEEMPH
FMAGC DET
SYNC SEP
DELAY
LPF
CLAMP
QV/QH INS CHARA INS W/D CLIP
W/D CLIP
DETAIL EMPH
AGC DET
VIDEO AGC
VCA
VIDEO AMP
MAIN EMPH
NL EMPH
PIC CONT
TBR CTL
MC CTL
U2_+5VS
LV033 33u
CV035 1u
$ JV079
CV032 470n
$ QV032 4.433619MHz
PAL_LP_ST
CV029 1u
DV029 LL4448
CV030 47n
RV029 8k2
IV001P33
TV028 BC848/B
RV028 1k8
RV027 1k
QV028 3.579545MHz & 4.433619MHz
JV006
RV021 1k
CV025 22n
RV025 2k7
$ TV02 RN140
JV009
U2_+5VS
RV022 4k7
SP_LP_EP
JV010
CV022 22n
RV023 4k7
JV098
CV062 22n
U2_+5VS
LV063 33u
CV063 100u
CV064 100n
CV065 22n
CV016 1u
CV067 1u
2k2 CV071
10n
CV069 1u
JV024
$ RV0 0R
RV049 2k7
DV048 LL4448
CV001 390p c
RV001 680R
CV011 8p c
RV002 4p7 c
TV002 RN1402
CV002 1k
RV003 100R
& JV077
TV003 BC848/B
CV004 22n
RV004 10k
DV003 1N4448
$ RV012 36k
CV005 10u
RV006 3k9
RV005 3k6
JV046
TV006 BC848/B
CV006 22n
U2_+5VS
JV025 JV057
RV007 2k2 & 2k7
RV008 3k3
U2_+5VS
JV027
CV007 10u
JV020 JV036 JV049
CV008 100u
LV008 33u
CV009 100n
U2_+5VS
JV026 JV045
CV010 10u
RV011 100R
TV011 BC858/B
$ RV013 1k8 M
RV010 1k
U2_+5VS
JV031
& RV071 0R
$ RV072 4k7
UPB_+5V
UPB_+5V
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV
& IV060P12
1
2
3
4
5
6
7

ATAMIENTO VIDEO

VPH 6751 - M 9560 HIFI/SA - T 8006 HIFI)


IV060
LC89971M
CHARGED COUPLED DEVICE DELAY LINE
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CCT 2 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842.5STAGES CCD
6STAGES CCD
858STAGES CCD
847STAGES CCD
2.5STAGES CCD
SHAPER WAVE
GENERATOR RD VOLTAGE
CLOCK DRIVER
COMPARATOR PHASE
DETECTOR DUTY CYCLE
GENERATOR TIMING
VCO
1/3
IV160
BA7046
H SDC
SYNC SEP
V OUT
SYNCHRONIZATION SEPARATOR
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
DV123
1SS181
FSC BPF
6DB AMP
INVERT
MESEC
ATT
VCA
TV024 RN1402
TV023 RN1402
TV164 RN1402
TV168 RN1402
TV171 BC558/B
TV170 RN1402
TV135 BC848/B
TV154 BC848/B
TV127 BC858/B
TV130 BC848/B
TV149 BC858/B
TV147 BC848/B
TV145 BC848/B
TV143 BC858/B
TV141 BC848/B
TV140 BC848/B
VIDEO_VPS
HD
VD
CSYNC
U1_+12VS
U2_+5VS
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31_9STDM
MESECAM
EDIT
PAL_LP_ST
50_60HZ
TRICK
NTSC_PB
SP_CLK
SP_DATA
STB_V
OSD_MIX_L
COL_OFF
UPB_+5V
PB_ON
V_EE_PB
VIDEO_OUT
OSD_VID
PV
BLKPV
COL_ROT
& IV060P12
SP_LP_EP
$ 4.43_3.58N
VIDEO_MODE
NTSC_PB
PAL_LP_ST
DRUM_FF
$ COL_ROT
GND

POS	MONO	HIFI
RV186	47k	47k
RV187	82k	120k
RV191	X	150k

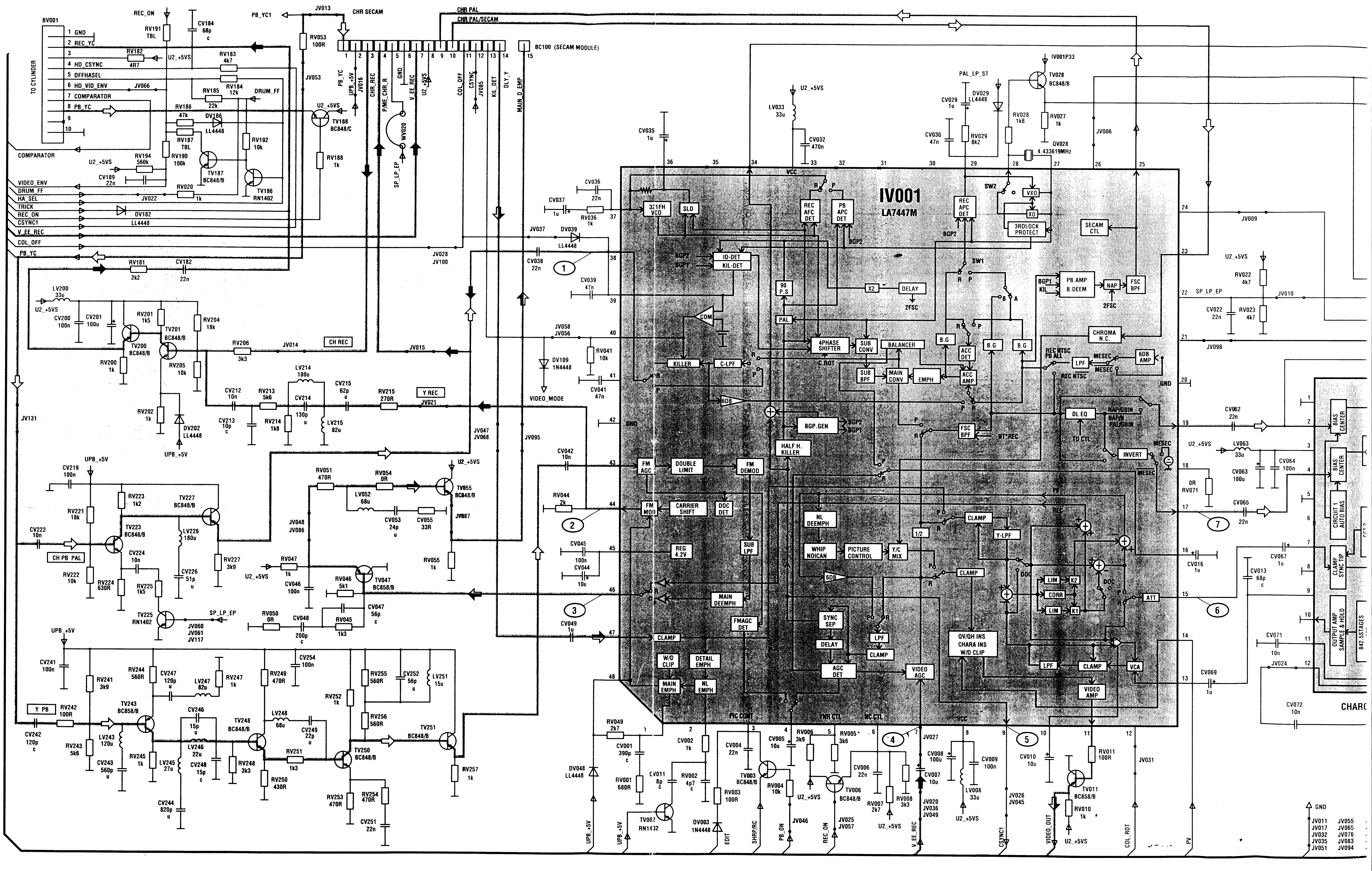
- : NOT USE IN ICON MODEL
M : ONLY IN MODEL WITH MODULATOR OUT
$: DELETE ONLY FOR SOME MODELS
& : ONLY FOR SOME MODELS

PB
REC
PB / REC

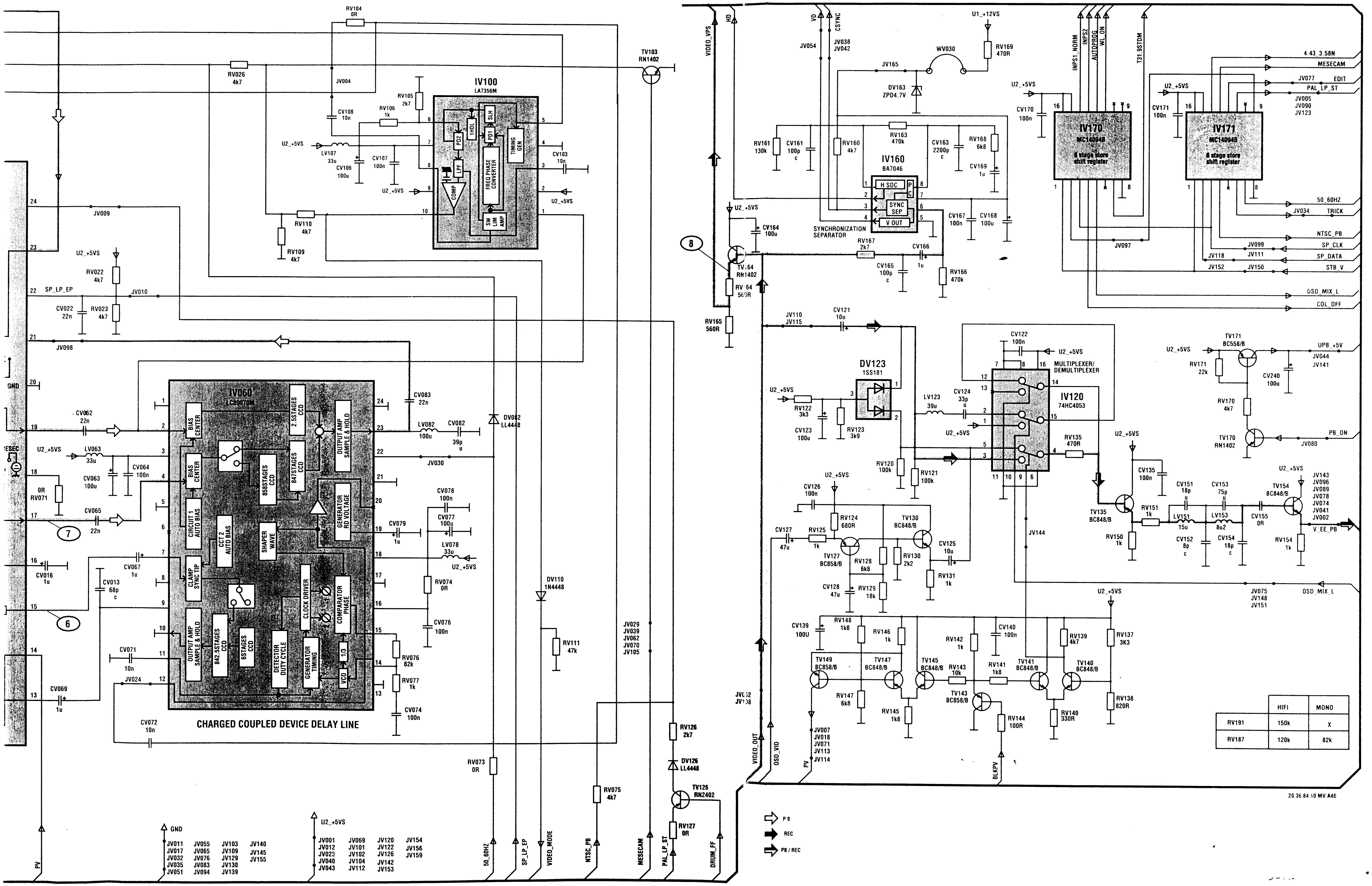
MV A41/A43/A47

VIDEO SIGNAL PROCESSING - TRAITEMENT LUMINANCE / CHROMINANCE - VIDEO SIGNALVERARBEITUNG - ELABORAZIONE VIDEO - TRATAMIENTO VIDEO

SCHEMATIC DIAGRAM - SCHEMA DE PRINCIPE - SCHALTBILD - SCHEMA - ESQUEMA (**VPH 6600N - VPH 6680 - VPH 6780 - M 9680 HIFI**)



BV001
1 GND
2 REC_YC
3
4 HD_CSYNC
5 DFFHASEL
6 HD_VID_ENV
7 COMPARATOR
8 PB_YC
9
10
TO CYLINDER
COMPARATOR
VIDEO_ENV
DRUM_FF
HA_SEL
TRICK
REC_ON
CSYNC1
V_EE_REC
COL_OFF
PB_YC
REC_ON
RV191 TBL
CV184 68p
PB_YC1
JV013
CHR SECAM
CHR PAL
CHR PAL/SECAM
RV053 100R
BC100 (SECAM MODULE)
JV053
PB_YC
UPB_+5V
JV016
CHR_REC
P/ME_CHR_R
GND
V_EE_REC
U2_+5VS
COL_OFF
CSYNC
JV085
KIL_DET
DLY_Y
MAIN_D_EMP
WV020
SP_LP_EP
RV182 4R7
RV183 4k7
RV185 22k
RV184 12k
DRUM_FF
JV066
RV186 47k
DV186 LL4448
RV187 TBL
RV192 10k
RV194 560k
RV190 100k
TV187 BC848/B
CV189 22n
RV020 1k
JV022
TV186 RN1402
DV182 LL4448
TV188 BC848/C
RV188 1k
RV181 2k2
CV182 22n
LV200 33u
U2_+5VS
CV200 100n
CV201 100u
RV201 1k5
TV201 BC848/B
RV204 18k
TV200 BC848/B
RV200 1k
RV205 10k
RV206 3k3
JV014
CH REC
JV015
LV214 180u
CV215 62p
CV212 10n
RV213 5k6
CV214 130p
RV215 270R
Y REC
JV021
RV202 1k
DV202 LL4448
CV213 10p
RV214 1k8
LV215 82u
UPB_+5V
JV131
JV028
JV100
JV037
DV039 LL4448
CV038 22n
CV037 1u
CV036 22n
RV036 1k
CV039 47n
JV058
JV056
DV109 1N4448
RV041 10k
CV041 47n
VIDEO_MODE
JV047
JV068
JV095
CV219 100n
RV223 1k2
TV227 BC848/B
RV221 18k
CV222 10n
TV223 BC848/B
LV226 180u
CV224 10n
CV226 51p
RV227 3k9
CH PB PAL
RV222 10k
RV224 630R
RV225 1k5
TV225 RN1402
SP_LP_EP
JV060
JV061
JV117
RV051 470R
RV054 0R
TV055 BC848/B
LV052 68u
CV053 24p
CV055 33R
JV087
JV048
JV086
RV047 1k
RV046 5k1
TV047 BC858/B
CV046 100n
RV055 1k
RV050 0R
CV048 200p
RV045 1k3
CV047 56p
U2_+5VS
CV042 10n
RV044 2k
CV045 100n
CV044 10u
CV049 1u
UPB_+5V
CV241 100n
RV241 3k9
RV244 560R
CV247 120p
LV247 82u
RV247 1k
RV249 470R
CV254 100n
RV255 560R
CV252 56p
LV251 15u
Y PB
RV242 100R
TV243 BC858/B
CV246 15p
TV248 BC848/B
LV248 68u
CV249 22p
RV252 1k
RV256 560R
TV251 BC848/B
CV242 120p
RV243 5k6
LV243 120u
CV243 560p
RV245 1k
LV245 27u
LV246 22u
CV248 15p
RV248 3k3
RV251 1k3
TV250 BC848/B
RV250 430R
RV257 1k
RV253 470R
RV254 470R
CV251 22n
CV244 820p
IV001
LA7447M
321FH VCO
SLD
REC AFC DET
PB APC DET
REC APC DET
VXO
XO
3RDLOCK PROTECT
SECAM CTL
SW2
BGP2
ID-DET
KIL-DET
90 P.S
X2
DELAY
2FSC
SW1
PB AMP B.DEEM
NAP
FSC BPF
COM
PAL
4PHASE SHIFTER
SUB CONV
BALANCER
B.G
ACC DET
CHROMA N.C.
KILLER
C-LPF
C.ROT
SUB BPF
MAIN CONV
EMPH
ACC AMP
LPF
MESEC
6DB AMP
REC NTSC
PB ALL
6DB
BGP.GEN
BGP1
FSC BPF
DL EQ
NAP/GBIN
PAL/GBIN
TD CTL
INVERT
HALF H. KILLER
FM AGC
DOUBLE LIMIT
FM DEMOD
FM MOD
CARRIER SHIFT
DOC DET
NL DEEMPH
CLAMP
Y-LPF
1/2
REG 4.2V
SUB LPF
WHIP NOICAN
PICTURE CONTROL
Y/C MIX
LIM
K2
CORR
K1
DOC
ATT
MAIN DEEMPH
SYNC SEP
DELAY
LPF
FMAGC DET
QV/QH INS CHARA INS W/D CLIP
W/D CLIP
DETAIL EMPH
AGC DET
VIDEO AGC
VCA
MAIN EMPH
NL EMPH
VIDEO AMP
PIC CONT
YNR CTL
MC CTL
VCC
GND
PAL_LP_ST
IV001P33
TV028 BC848/B
U2_+5VS
LV033 33u
CV035 1u
CV032 470n
CV029 1u
DV029 LL4448
CV030 47n
RV029 8k2
RV028 1k8
RV027 1k
QV028 4.433619MHz
JV006
JV009
U2_+5VS
RV022 4k7
SP_LP_EP
JV010
CV022 22n
RV023 4k7
JV098
CV062 22n
U2_+5VS
LV063 33u
CV064 100n
CV063 100u
0R RV071
CV065 22n
CV016 1u
CV067 1u
CV013 68p
CV071 10n
JV024
CV069 1u
CV072 10n
CHAR
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842 5STAGES
RV049 2k7
CV001 390p
DV048 LL4448
RV001 680R
CV011 8p
RV002 4p7
CV002 1k
TV002 RN1402
DV003 1N4448
RV003 100R
CV004 22n
TV003 BC848/B
CV005 10u
RV006 3k9
RV005 3k6
RV004 10k
JV046
TV006 BC848/B
CV006 22n
RV007 2k7
RV008 3k3
JV025
JV057
U2_+5VS
JV027
CV008 100u
CV007 10u
JV020
JV036
JV049
CV009 100n
LV008 33u
U2_+5VS
JV026
JV045
CV010 10u
RV011 100R
TV011 BC858/B
RV010 1k
U2_+5VS
JV031
UPB_+5V
UPB_+5V
EDIT
SHRP/RC
PB_ON
REC_ON
V_EE_REC
CSYNC1
VIDEO_OUT
COL_ROT
PV
GND
JV011 JV055
JV017 JV065
JV032 JV076
JV035 JV083
JV051 JV094
①
②
③
④
⑤
⑥
⑦


IV100
LA7356M
IV060
LC89970M
CHARGED COUPLED DEVICE DELAY LINE
BIAS CENTER
CIRCUIT 1 AUTO BIAS
CCT 2 AUTO BIAS
CLAMP SYNC TIP
OUTPUT AMP SAMPLE & HOLD
842.5STAGES CCD
6STAGES CCD
DETECTOR DUTY CYCLE
GENERATOR TIMING
CLOCK DRIVER
COMPARATOR PHASE
VCO
2.5STAGES CCD
858STAGES CCD
847STAGES CCD
SHAPER WAVE
GENERATOR RD VOLTAGE
FREQ PHASE CONVERTER
TIMING GEN
SW LIM AMP
COMP
IV160
BA7046
SYNCHRONIZATION SEPARATOR
H SDC
SYNC SEP
V OUT
IV170
MC14094B
8 stage store shift register
IV171
MC14094B
8 stage store shift register
IV120
74HC4053
MULTIPLEXER/ DEMULTIPLEXER
DV123
1SS181
TV103
RN1402
TV164
RN1402
TV126
RN2402
TV171
BC558/B
TV170
RN1402
TV135
BC848/B
TV154
BC848/B
TV127
BC858/B
TV130
BC848/B
TV149
BC858/B
TV147
BC848/B
TV145
BC848/B
TV143
BC858/B
TV141
BC848/B
TV140
BC848/B
DV082
LL4448
DV110
1N4448
DV126
LL4448
DV163
ZPD4.7V
VIDEO_VPS
HD
VD
CSYNC
U1_+12VS
U2_+5VS
INPS1_NORM
INPS2
AUTOPROG
WL_ON
T31_9STDM
4.43_3.58N
MESECAM
EDIT
PAL_LP_ST
50_60HZ
TRICK
NTSC_PB
SP_CLK
SP_DATA
STB_V
OSD_MIX_L
COL_OFF
UPB_+5V
PB_ON
V_EE_PB
SP_LP_EP
GND
PV
50_60HZ
SP_LP_EP
VIDEO_MODE
NTSC_PB
MESECAM
PAL_LP_ST
DRUM_FF
VIDEO_OUT
OSD_VID
PV
BLKPV
PB
REC
PB / REC
20 36 84 10 MV A46

	HIFI	MONO
RV191	150k	X
RV187	120k	82k